

# ***Video Network Station***

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User's Guide Page 2

**GB**

Mode d'emploi Page 47

**FR**

preliminary

**SNT-V304**

## **WARNING**

**To prevent fire or shock hazard, do not expose the unit to rain or moisture.**

**To avoid electrical chock, do not open the cabinet. Refer servicing to qualified personnel only.**

## **VORSICHT**

Um Feuergefahr und die Gefahr eines elektrischen Schlages zu vermeiden, darf das Gerät weder Regen noch Feuchtigkeit ausgesetzt werden.

Um einen elektrischen Schlag zu vermeiden, darf das Gehäuse nicht geöffnet werden. Überlassen Sie Wartungsarbeiten stets nur einem Fachmann.

**For the customers in the United Kingdom**

### **WARNING**

**THIS APPARATUS MUST BE EARTHED**

### **IMPORTANT**

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:  
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  $\perp$  or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

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# Video Network Station Features

This unit is a video network station that distributes real-time CCTV images over a LAN or the Internet.

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## Simple monitoring over a network

- By assigning an IP address to this unit, live video can be monitored using standard Web browsers on client PCs.
- The unit can be set up and controlled from a Web page.

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## Compatible with existing networks

- Supports standard network environments and connects with LAN, WAN and telephone circuits.
- Accessible from any client on the network.

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## Remote control of video sources

- The video network station can set up and control the pan, tilt and zoom (PTZ) of the EVI-D30/D31/G20/G21 Color Video Cameras (sold separately).
- The video network station can set up and control the HSR-1/1P/2/2P Digital Surveillance Recorders (sold separately).

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## Flexible, high-performance display functions

- Up to four inputs can be displayed in two- and four-way split screens, or by sequential switching.
- Very high-quality images are made possible by support for Y/C signals from the EVI-D30/D31/G20/G21 or HSR-1/1P/2/2P.
- Supports low video frame rates ideal for live monitoring.

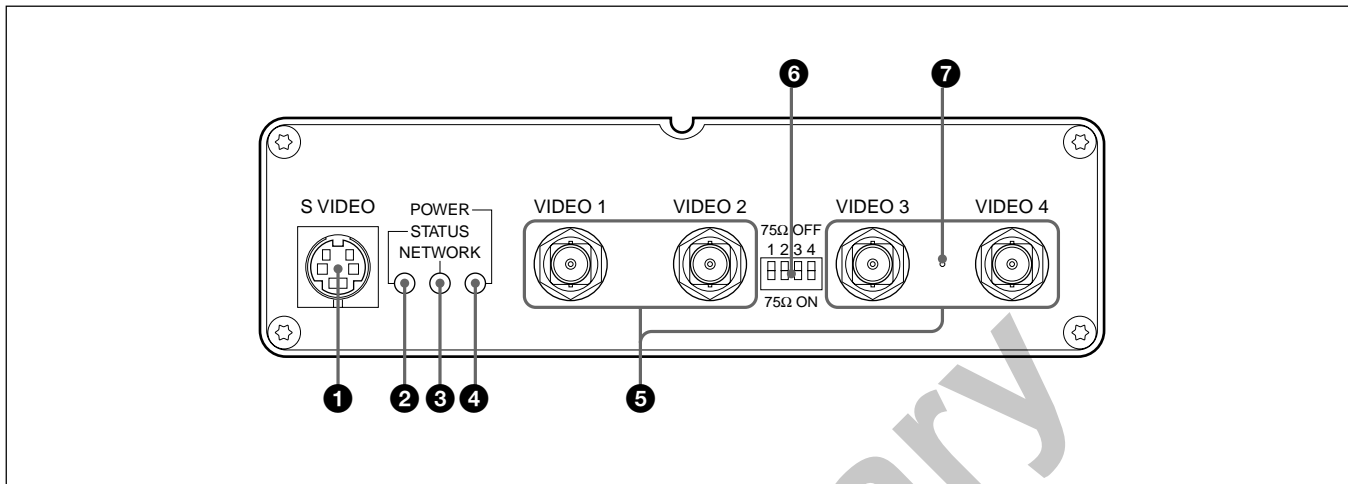
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## Alarm functions complement monitoring applications

- Four alarm inputs are provided to allow easily checking images on the screen at the moment an alarm event occurs.
- The screen image at the moment of an alarm is stored in JPEG format, and can be transferred to a pre-specified host computer or sent to an e-mail address.
- A built-in image buffer allows reviewing images from before and after an alarm event occurs.

# Part Names and Functions

## Front Panel



### 1 S VIDEO Input Terminal (4 pins)

Video sources that provide separate Y/C signals are input here. The VIDEO 1 input terminal is not usable when this terminal is used.

### 2 STATUS Indicator

Indicates the operating status of the unit.

Color	Server Status
Orange (blinking)	The self-test is executing after turning power on.
Green	Normal operation
Red	Fault. Refer to “If You Suspect a Problem” on page 40 for remedies.

### 3 NETWORK Indicator

After the self-test is complete, this indicator shows the connection status of the network.

Color	Network Connection Status
Orange (blinking)	A 10-Mbps Ethernet connection has been established.
Green (blinking)	A 100-Mbps Ethernet connection has been established.
Red	No network connection could be established.

### 4 POWER Indicator

This indicator remains lit while power is on. If this indicator blinks or fails to light, a problem is occurring with the video network station’s power supply. Refer to “If You Suspect a Problem” on page 40 for remedies.

### 5 VIDEO 1 to VIDEO 4 BNC Input Terminals

Composite video signals can be connected here using coaxial video cable. The video signal format is automatically detected when an NTSC or PAL video source is connected. However, the VIDEO 1 and S VIDEO terminals cannot both be used at the same time.

### 6 75-Ω Termination Switches

The termination resistance of each VIDEO input terminal can be set on or off with these switches. When the unit is shipped from the factory, all termination switches are ON.

#### Note

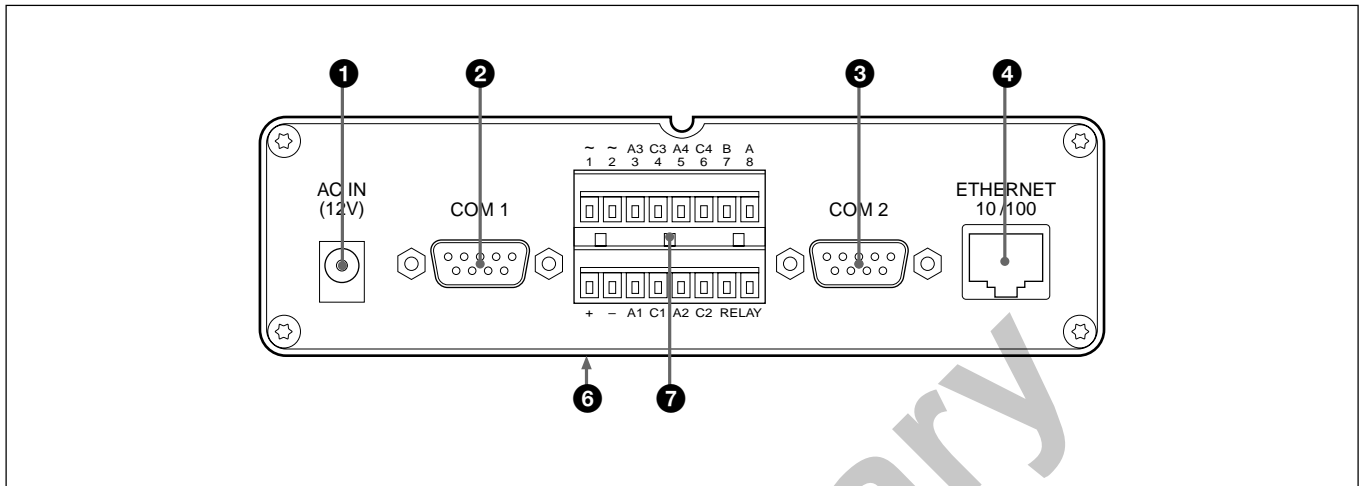
When this server is connected in parallel with other devices, turn the corresponding termination switch off.

### 7 RESET Switch

This switch returns the server settings to factory default state. Refer to “Resetting to Factory Defaults” on page 37 for details.

## Part Names and Functions

### Rear Panel



#### ❶ AC IN (12 V) Input Terminal

The supplied AC adapter connects here.

#### ❷ COM 1 Terminal (9-Pin D-Sub)

The EVI-D30/D31/G20/G21 or HSR-1/1P/2/2P can be connected to here. The EVI-D30/D31/G20/G21 connects using VISCA cable, and the HSR-1/1P/2/2P connects with RS-232C cable.

#### ❸ COM 2 Terminal (9-Pin D-Sub)

The EVI-D30/D31/G20/G21 or a modem can be connected to here. The EVI-D30/D31/G20/G21 connects using VISCA cable, and the modem connects with RS-232C cable.

#### ❹ ETHERNET 10/100 Terminal (RJ-45)

Using Category 5 twisted-pair cable, connect this terminal of the server to the network as a 10-Mbps Ethernet or 100-Mbps Fast Ethernet device.

#### ❺ I/O Terminal Block Connector

This is an accessory input/output connector, used for alarm inputs. Refer to “Basic Specifications” on page 41 for details.

#### ❻ MAC Address

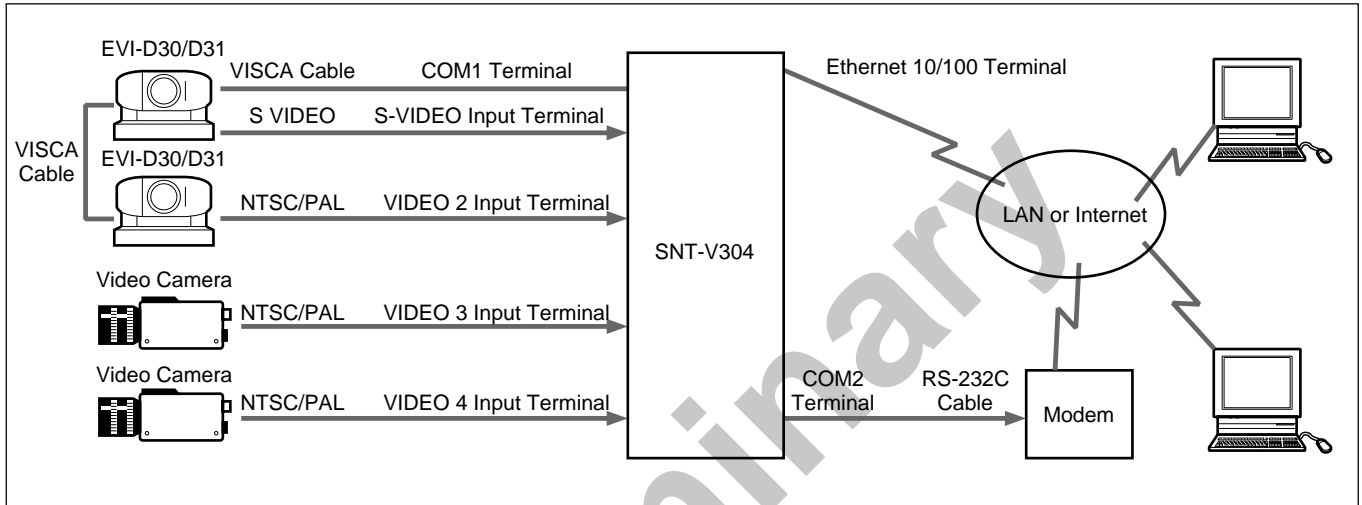
The MAC address is shown on the label on the bottom.

# System Application Examples

- Up to four video sources can be connected to the server.
- Highest image quality can be distributed by using S-video.

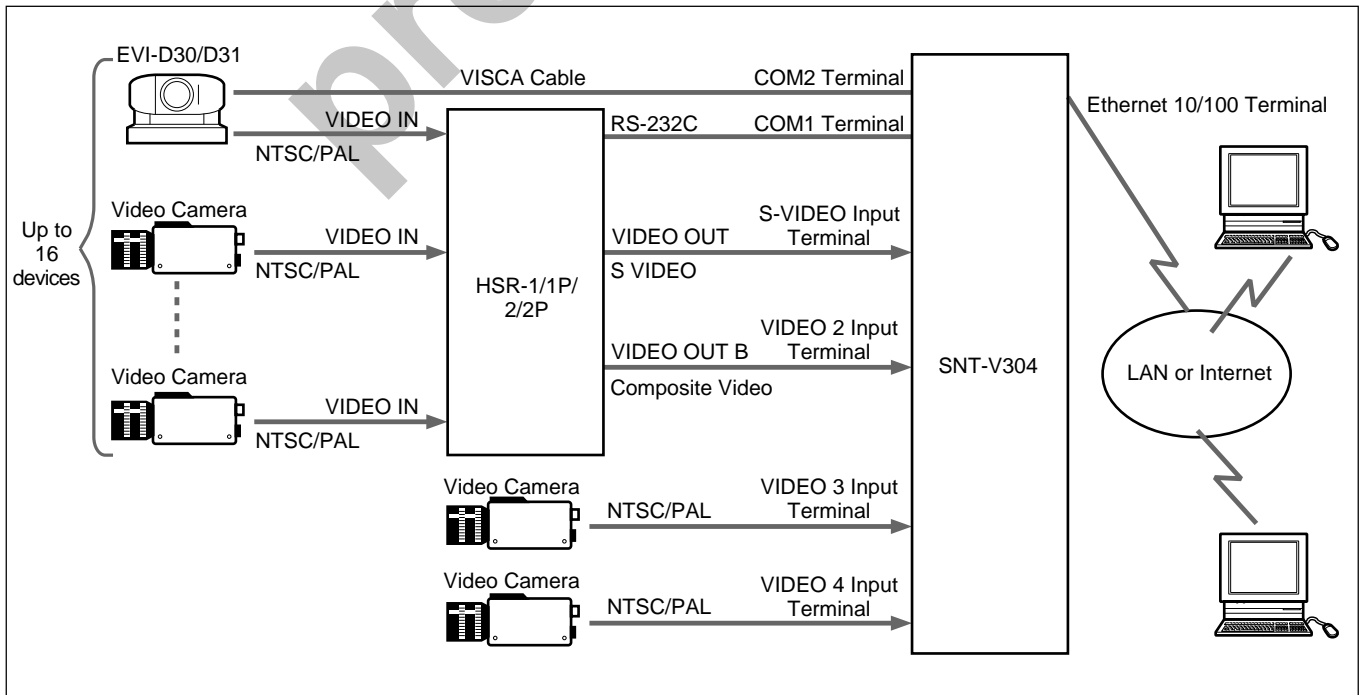
## Using the EVI-D30/D31

Connecting an EVI-D30/D31 to the video network station using the COM1 or COM2 terminal allows control of pan, tilt and zoom from a computer on the network.



## Using the HSR-1/1P/2/2P

By connecting an HSR-1/1P/2/2P to the COM1 terminal of the video network station, it can be set up and operated by a computer on the network.



# Settings

This chapter describes how to set up the video network station for various system types and applications. Video network station settings are made using Internet Explorer 5 (or later).


## Note

If the computer used for making video network station settings or viewing the monitor screen is shared with other users, we recommend closing the Web browser when finished operations. Until the browser has been closed, even after moving to another Web page, the password-protected video network station's Web page remains accessible, for example, by clicking the [Back] button.

## Hint

- The IP address must be assigned according to the “IP Address Assignment” procedure on page 8 before setting the video network station.
- Items that can be set are listed in the “Settings List” on page 44.

## Basic Settings with the First Time Installation Wizard

Click  (First Time Installation Wizard) to make the basic video network station settings with interactive instructions.

The “First Time Installation Wizard” icon appears on the “Welcome” page.

## Hints

- Settings can be made without the Wizard. In this case, click the [Admin] button on the “Welcome” page, and refer to “Accessing the Administration Overview Page” on page 12.
- If the “Layout and Application Wizard” (page 13) has been used to make settings when the server was accessed in the past, the “Welcome” page does not appear. In this case, click the Admin button on the “Welcome” page, and refer to “Accessing the Administration Overview Page” on page 12.
- The “First Time Installation Wizard” can be accessed from the Administration Overview page.

- 1 Click the “First Time Installation Wizard” icon on the “Welcome” page, and click [OK] when the confirmation message appears.

The Wizard appears.



- 2 Follow the Wizard's on-screen instructions to make the settings. Refer to the “Settings List” on page 44 to see which items can be set using the Wizard.
- 3 Click the [Finish] button when you reach the end of the Wizard.  
A server reboot confirmation message appears.
- 4 Click [OK].  
The settings are saved.
- 5 Click the Browser's [Refresh] button.  
The monitor screen appears with the new settings applied.



To change settings in the future, or to set parameters not available in the Wizard, refer to the following “Accessing the Administration Overview Page” section.



# Installation

## Accessing the Administration Overview Page

Click the **Admin** (Admin) button to display the “Administration overview” page. After basic settings have been made with the “First Time Installation Wizard”, all video network station settings and management are performed from the “Administration overview” page.

- 1 Launch the Web browser and enter the following in the [Address] box, and press Enter.

```
http://<host name or IP address of the video network station>/
```

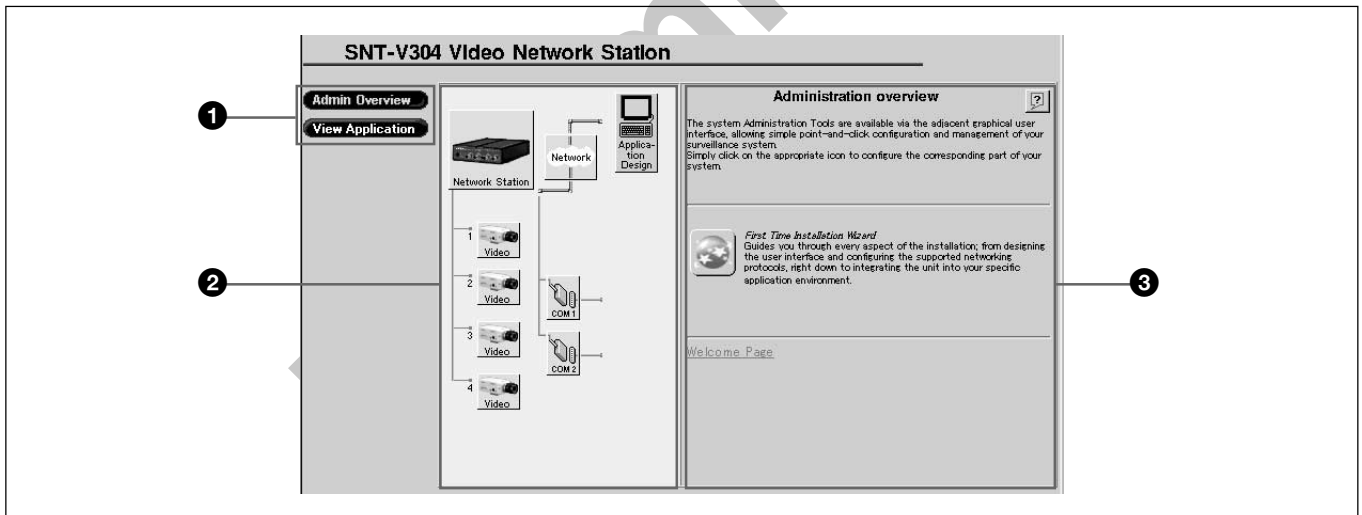
The monitor screen appears.

- 2 Click the [Admin] button.  
The “Enter User Name and Password” dialog box appears.

- 3 Enter “root” as the system user name, and the password that was set previously, and click [OK].  
The “Administration overview” page appears.

### Note

- The factory-default administrator (root) password is “pass”. Unless the administrator’s password has been changed, enter “pass” for the password. However, as all units are programmed with the same settings at shipping time, you should change the password as soon as possible. Refer to “Changing Passwords and User Registration” on page 16 for the procedure.
- A message such as There is no Data may appear when changing the window size from the “Administration overview” page. In this case, click the right mouse button, and select [Refresh].



### 1 Menu

**Admin Overview** (Admin Overview): Click to return to the initial “Administration overview” page.

**View Application** (View Application): Click to open a monitor screen window. Changes to settings related to the monitor mode can be confirmed in this window.

### 2 Items

The system’s structural elements are indicated by the icons. Clicking on an item displays related settings that can be changed in the Settings area at the right.

### 3 Settings Area

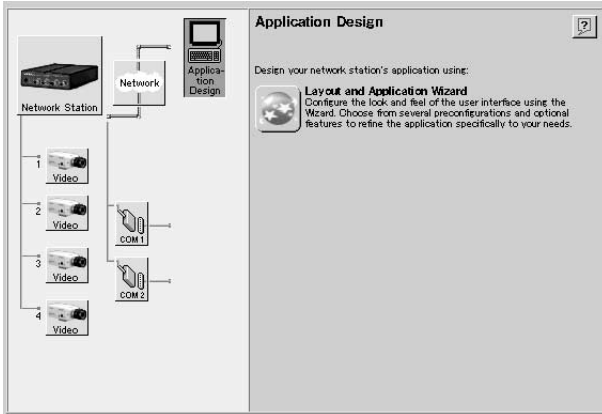
Text boxes and icons are displayed for setting the selected item.

The “First Time Installation Wizard” icon is displayed on the initial screen. Refer to “Basic Settings with the First Time Installation Wizard” on page 11 for details.

## Monitor Screen and Alarm Function Setup



The (Application Design) icon is used to configure the monitor screen display and to determine the operation of the video network station when an alarm event occurs. Clicking the “Application Design” icon displays the following screen.



Clicking the (Layout and Application Wizard) icon displays the “Layout and Application Wizard”. When the wizard is first run, a screen appears on which to select either [Layout] or [Application] settings. Select [Layout] to configure the monitor screen, or select [Application] to set alarm inputs and alarm event responses.

### Layout Settings

Setting	Description
Which view do you want to display as default when opening the Web interface?	Select which image is to be initially displayed when the user accesses the monitor screen: <ul style="list-style-type: none"> <li>• Camera View Displays the video camera image</li> <li>• HSR View Displays the HSR-1/1P/2/2P image</li> </ul>
What type of image do you want to show in Web pages?	Select the image size for the monitor screen from the following: <ul style="list-style-type: none"> <li>• Fullsize Display 352 × 240 NTSC or 352 × 288 PAL</li> <li>• Hugesize Display 704 × 480 NTSC or 704 × 576 PAL</li> </ul>

Setting	Description
What format do you want ALL in camera view to be in?	Select the images and layout to be displayed on the monitor in the ALL mode from the following: <ul style="list-style-type: none"> <li>• All cameras All video camera images are displayed.</li> <li>• Camera 1 and 2 horizontally aligned Images of the video cameras connected to VIDEO 1 and 2 terminals are displayed side by side.</li> <li>• Camera 1 and 2 vertically aligned Images of the video cameras connected to VIDEO 1 and 2 terminals are displayed one above the other.</li> </ul>
Would you like to display the Sony logo?	Select whether to display the Sony logo at the top of the page: either [Yes] (display) or [No] (no logo).
Please enter the time for sequential switching:	Enter an image display interval from 0 to 30 seconds for each of the four video sources. Setting 0 for a video source causes it to not be displayed on sequential mode. Also, if a short interval is set, the image may not be displayed, depending on network conditions and processing speed of the computer.

### Application Settings

Setting	Description
Alarm Buffer, Overwrite	A pre-determined amount of memory is used to store images before and after an alarm event. If the quantity of images exceeds the allotted amount, select whether to overwrite previously stored contents, oldest first. Select either [ON] (overwrite) or [OFF] (no overwrite).
Alarm Pop-Up Window	Select whether a pop-up window should appear when an alarm event occurs: either [Enable] (display pop-up) or [Disable] (no pop-up).
Switch image when Alarm is ON	Select whether to switch the display to the alarm-detecting camera when an alarm event occurs: either [Enable] or [Disable] switching.


# Installation

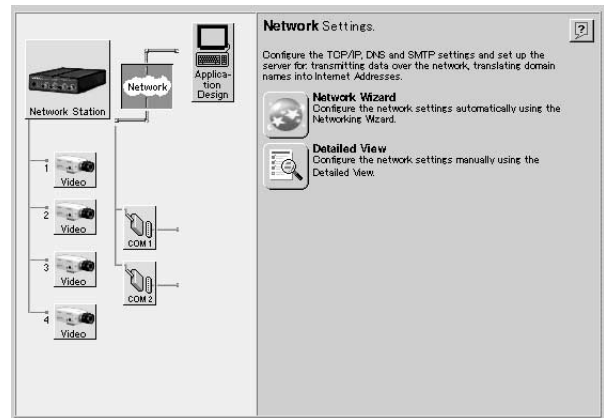
Dialog boxes relating to [Input 1] (Alarm Input 1) to [Input 4] (Alarm Input 4) are displayed for the following items.

Setting	Description
Alarm Enabled	Alarm input is enabled when this box is checked.
Always	Alarm input is always enabled when this radio button is selected.
Restricted Between	Alarm input is enabled for a specific time of day when this radio button is selected.
Start	When the [Restricted Between] radio button is selected, enter the start time here.
Stop	When the [Restricted Between] radio button is selected, enter the stop time here.
Mon to Sun	Check the boxes to specify particular days on which the alarm input should be enabled.
Alarm ON at: Positive-edge	Check this box to have a rising alarm input signal indicate the occurrence of an alarm event.
Alarm ON at: Negative-edge	Check this box to have a falling alarm input signal indicate the occurrence of an alarm event.
Image every X second(s)	Select the storage interval for images during an alarm event.
Number of PRE alarm images	Enter the number of images (0 to 99) to be saved prior to an alarm event.
Number of POST alarm images	Enter the number of images (0 to 99) to be saved after an alarm event.
Alarm duration	Enter the time (seconds) from an alarm occurrence until the alarm mode is cleared.
No Upload	Select this radio button to disable transfer of saved images.
Upload Via FTP	Select this radio button to transfer saved images by ftp.
Host Name	Enter the host name of the transfer destination.
User Name	Enter the user's name on the host at the transfer destination.
Password	Enter the password of the above user.
Upload Via e-mail (one image only)	Select this button to send a saved image as an e-mail attachment.
To Email	Enter the mail address of the destination for image files. Multiple addresses may be entered by separating with commas. Up to 100 characters may be entered.
Subject	Enter the title text for the e-mail.
Text	Enter the body text for the e-mail.



Setting	Description
Camera Link	Check this box to include in the e-mail a link to the real-time image on the camera where an alarm event occurs.
Upload Path: (FTP only)	Enter the path of the save destination for image files sent by ftp to a host.
Base File Name	Enter the base file name for image files to be sent.
Date/Time Suffix	Select this radio button to have the date and time appended to the base file name.
Sequence Number Suffix set to Maximum	Select this radio button to have a sequential number appended to the base file name.
Sequence Number Suffix up to:	When a sequential number is attached to the base file name, to set an upper limit to the numbering, select this radio button and enter the upper limit.

## Network Settings

The  (Network Settings) icon is used for settings related to the supporting network protocol. Clicking the "Network Setting's icon displays the following screen.



Settings can be made with the following procedures.


-  (Network Wizard) icon: click to display Wizard instructions for making the settings.
-  (Detailed View) icon: click to display a dialog box with [TCP/IP], [DNS] and [SMTP EMail] tabs that you can select to make corresponding settings.

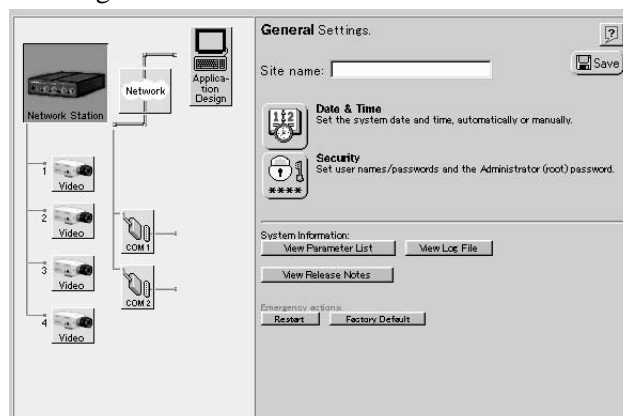
Settable contents are shown in the following table.

Setting	Description	
TCP/IP	BOOTP*	Enable the BOOTP protocol to automatically download the IP address.
	Internet Address	Enter the video network station IP address.
	Default Router	Enter the network default router address.
	Subnet Mask	Enter the network subnet mask. This parameter is used to determine whether communication is passed through the router.
	Host Name	Enter the video network station's host name.
	Bandwidth Control	Network bandwidth to be assigned to the video network station is selected from the drop-down list.
DNS	Domain Name	Enter the network domain name.
	Primary DNS Server	Enter the IP address of the primary DNS server. The DNS server is used to recognize computers by domain names instead of IP addresses.
	Secondary DNS Server	Enter the IP address of the secondary DNS server. The secondary DNS server is used when the primary DNS server is unusable or unavailable.
SMTP	Primary Mail Server	Enter the IP address or name of the primary mail server.
	Secondary Mail Server	Enter the IP address or name of the secondary mail server. The secondary mail server is used when the primary mail server is unusable or unavailable.
	Return Email Address	Enter the return address of email sent from the video network station, which is the mail address you wish to appear in the "FROM" field of email sent from the video network station.

\*This setting cannot be changed with the "Network Wizard".

## System Administration and Security

The  (Network Station) icon is used to configure the security of the video network station or system administrator. Clicking "Network Station" displays the following screen.

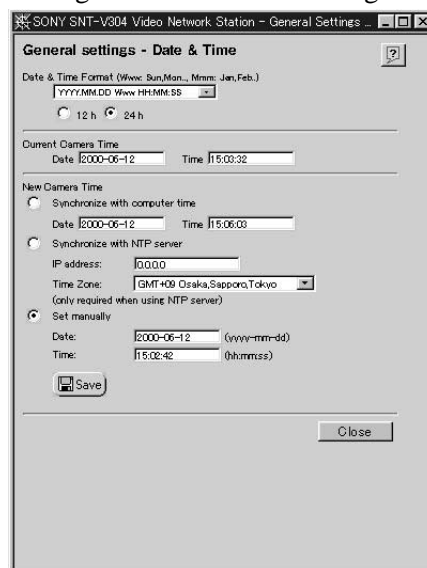


### Setting a Site Name

Enter the site name in the [Site name] text box that you wish to have displayed at the top of the monitor screen, and click the "Save" icon to save the new name. The site name may consist of up to 16 characters.

### Set Date and Time

Click the  (Date & Time) icon to display the "General settings – Date & Time" dialog box.




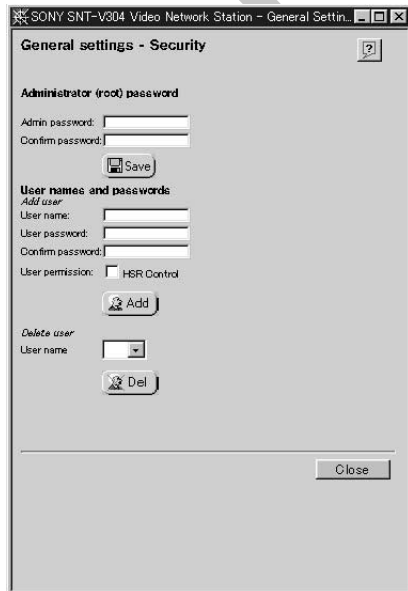
# Installation

The setting items are shown in the following table. When finished setting, click the “Save” Icon. The accuracy of the internal clock is  $\pm 120$  seconds/month or less.

Setting		Description
Date & Time Format		Select the display format for date and time on the monitor screen from the drop-down list.
	12h/24h	Select either [12h] or [24h] for 12- or 24-hour time display.
Current Camera Time		Displays the current date and time. The displayed date and time cannot be edited.
New Camera Time	Synchronize with computer time	Turn this on to synchronize the video network station clock with the computer's internal clock. The displayed date and time cannot be edited.
	Synchronize with NTP server	Turn this on to synchronize the video network station clock with an NTP server.
	IP address	Enter the IP address of the NTP server.
	Time Zone	Select your time zone from the drop-down list.
	Set manually	Enable this if you need to set the date and time manually.
	Date	Enter the date (yyyy-mm-dd), from 1970-01-01 to 2031-12-31.
	Time	Enter the time (hh:mm:ss)

## Changing Passwords and User Registration

Click the  (Security) icon to display the “General settings – Security” dialog box.



## Changing the System Administrator Password

### Note

When the video network station is shipped from the factory, the system administrator's user name and password are set to “root” and “pass”. As all units are programmed with the same settings at shipping time, you should change the password as soon as possible.

Enter the new administrator's password in the [Admin password] field and again in the [Confirm password] field, then click the “Save” icon. A valid password consists of up to eight characters, consisting of a-z, A-Z and 0-9.

### Registering a User

With the default setup as shipped from the factory, any user on the network can access the video network station. There is no need to register users if access is to be permitted to anonymous users. However, if access is to be limited to specific users, register the users by the following procedure. If more than one user is registered, video network station connections are password protected.

- 1 Enter a user name to be registered in the [User name] field of the [Add user] item, and enter their password in the [User password] and [Confirm password] fields. A user name may be up to ten characters long, and a password up to eight characters long, both consisting of a-z, A-Z and 0-9.
- 2 Place a check in the [HSR Control] checkbox if the user has permission to control the HSR-1/1P and HSR-2/2P.

### Hint

The [CTR] button appears in the HSR view to users for whom this box is checked. Clicking the [CTR] button accesses the “HSR CONTROL” page. Refer to “HSR View Mode” on page 33 for information about controls for HSR View and the HSR-1/1P/2/2P.

### Note

HSR-1/1P/2/2P password-protected functions such as Key Lock on/off are accessible from the “HSR CONTROL” page. Access permission to the “HSR CONTROL” page should be considered very carefully.

- 3 Click the “Add” icon.

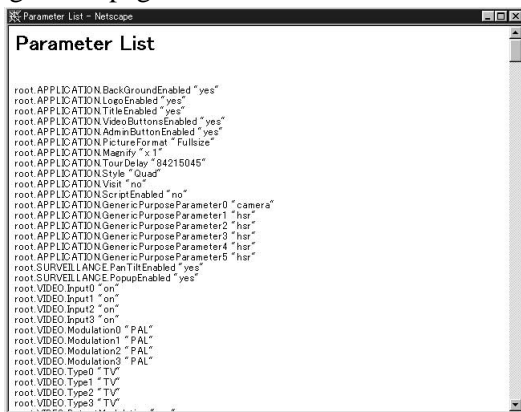
- Repeat the above steps to add more users. Up to 20 users can be registered.
- Click the [Close] button to close the dialog box.

## Unregistering a User

- Select the name of the user to be unregistered from the [User name] drop-down list in the [Delete user] area, and click the “Del” icon. The registration of the selected user is deleted.
- To delete another user registration, repeat step 1.
- Click the [Close] button to close the dialog box.

## Displaying the Parameter List

Clicking the **View Log File** (View Parameter List) button opens a new window to display the “Parameter Settings List” page.



All settings except passwords can be viewed in this list.

## Displaying Release Notes

Clicking the **View Release Notes** (View Release Notes) button opens a new window to display the “Release Notes” page.

The “Release Notes” page shows the video network station firmware and software version information.

## Displaying the Log File

Clicking the **View Log File** (View Log File) button opens a new window to display the “Log file Events” page. Recently executed commands are displayed on the “Log file Events” page. The log file is used to check whether a special event was executed, such as whether a command was issued before or after an alarm occurred. The log also serves as a diagnostic tool to resolve operational problems.

## Restarting the Video network station

Clicking the **Restart** (Restart) button displays a confirmation message for you to restart the video network station. If you click [OK], the “General Settings” page will be redisplayed after the server restarts.



## Reverting to Factory Default Settings

### Note

This operation returns all settings, including the video network station IP address, to their factory-default values.

Clicking the **Factory Default** (Factory Default) button displays a confirmation message. If you click [OK], all settings in the video network station are returned to their original shipped state.

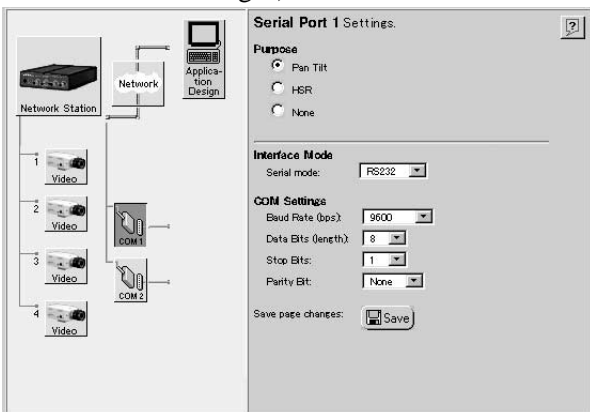
## Serial Port Settings

The   (COM1 and COM2) icons represent the serial ports of the video network station. Use these icons when an EVI-D30/D31/G20/G21 or HSR-1/1P/2/2P is connected to the “COM1” or “COM2” ports to set up serial port function and communications parameters.



### Note


If a serial port has the Click “Save” icon enabled, the video network station reboots and alarm memory contents are erased, so check the alarm memory contents, if necessary, before setting.

- 1 Click the “COM1” (or “COM2”) icon. The screen displays the “Serial Port 1 Settings” (or “Serial Port 2 Settings”).




- 2 Make the required settings. Available settings are as follows.

Setting	Options	Description
Purpose	Pan Tilt	Select this if an EVI-D30/D31/G20/G21 is connected to the port. When selected, the “Pan Tilt” icon shown below is added next to the “COM1” or “COM2” icon. 
	HSR (only displayed for COM1)	Select this if an HSR-1/1P/2/2P is connected to the port. When selected, the “HSR” icon shown below is added next to the “COM1” icon. 

Setting	Options	Description
Purpose	Modem (only displayed for COM2)	Select this if a modem is connected to the port. When selected, the “Modem” and “ISP” icons shown below are displayed. 
	None	Select this if no device is connected to a port.
Serial Mode (only displayed for COM1)		Select the appropriate interface type: [RS232] for the EVI-D30/D31/G20/G21 and HSR-1/1P/2/2P.
Baud Rate (bps)		Select the transfer speed: Select [9600] for the EVI-D30/D31/G20/G21, or [1200] to [38400] as the HSR setting to match that of the HSR-1/1P/2/2P.
Data Bits (length)		Select [8] data bits for the EVI-D30/D31/G20/G21 and HSR-1/1P/2/2P.
Stop Bits		Select [1] stop bit for the EVI-D30/D31/G20/G21 and HSR-1/1P/2/2P.
Parity Bit		Select [None] for the EVI-D30/D31/G20/G21 and HSR-1/1P/2/2P.

- 3 Click the “Save” icon when finished with the settings. The new settings are saved, the video network station reboots, and the display changes as follows depending on the selected usage.
  - When [Pan Tilt] is selected, the “Pan Tilt Settings” page appears. Refer to “Pan/Tilt Driver and Video Camera ID Setup” below.
  - When [HSR] is selected, the “Sony HSR Settings” page appears. Refer to “HSR-1/1P/2/2P Setup” on page 20.
  - When “Modem” is selected, the “Modem Settings” page appears. Refer to “Modem Setup” on page 22. Also, to set up dial-up connection via modem, refer to “ISP (Internet Service Provider) Setup” on page 22.

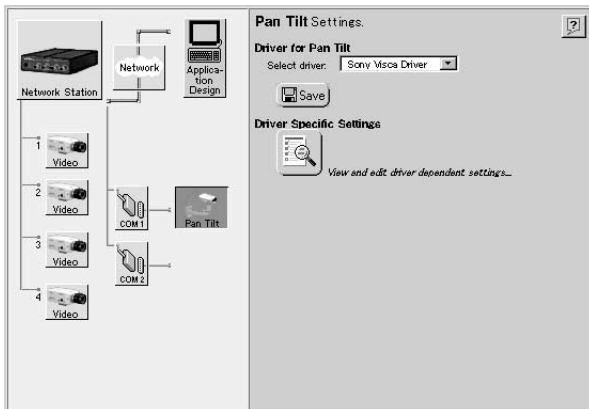
## Pan/Tilt Driver and Video Camera ID Setup

The  (Pan Tilt) icon is displayed when a Pan/Tilt device is selected for the serial port usage. If the “Pan Tilt” icon is not displayed next to the icon of the applicable serial port, refer to “Serial Port Settings” on page 18 to reset the serial port usage.

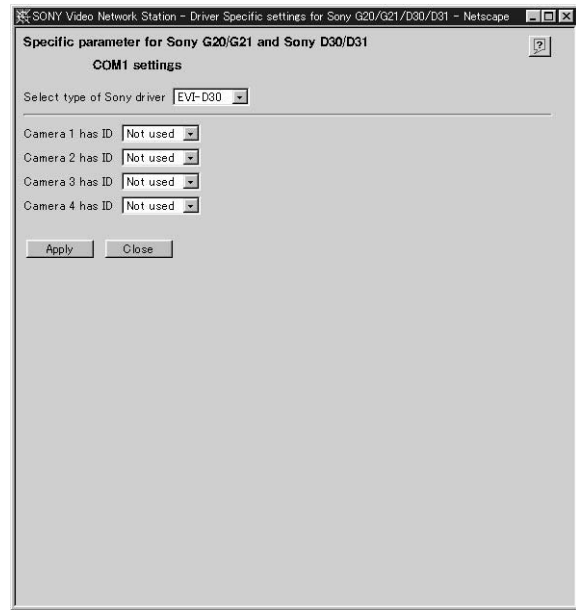
Up to seven VISCA-compliant video cameras can be connected by daisy chaining to the two serial ports on the video network station, with pan/tilt/zoom controlled by the ID number of each video camera. The “Pan Tilt” icon is used to set the driver, video camera ID number and video camera preset position for each connected device.

The following example describes connection of an EVI-D30/D31/G20/G21.

- 1 Click the “Pan Tilt” icon in the Items area. The “Pan Tilt Settings” screen appears.



- 2 Verify that [Sony Visca Driver] is selected in the [Select Driver] drop-down list.
- 3 Click the Driver Specific Settings icon to change the ID number of the video camera. The “Specific parameters for Sony G20/G21 and Sony D30/D31” page appears.



- 4 Select the connected video camera from the [Select type of Sony driver] drop-down list.

- 5 Select an ID number in one of the [Camera 1] to [Camera 4] drop-down lists.

### Hint


- The ID number must be unique from other devices.
- Set the number according to the daisy-chain connection sequence.
- When an HSR-1/1P/2/2P is connected to the COM1 terminal, an ID number can be set for each camera connected to the HSR-1/1P/2/2P.

- 6 Click the [Apply] button. Settings are applied, and a “Preset Positions” icon is added to the video camera for which the ID number was set.
- 7 If setting video camera preset positions, go to “Setting Pan/Tilt Camera Preset Position” below. Otherwise, click the [Close] button to finish with settings.



# Installation

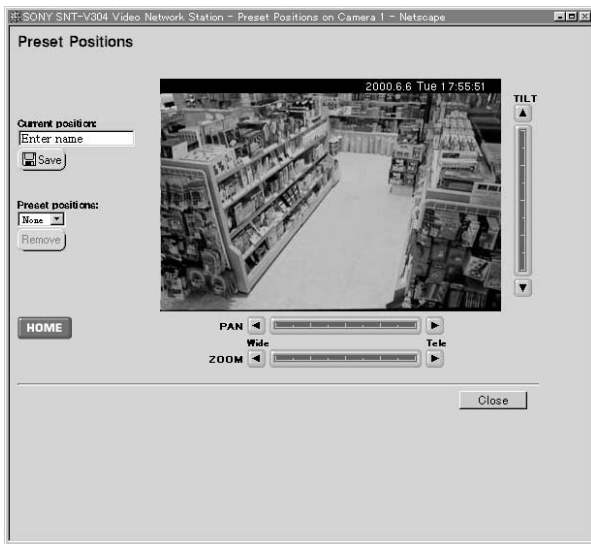
## Setting Pan/Tilt Camera Preset Position

The  (Preset Positions) icon is used to set preset positions for a pan/tilt camera.

The administrator can set and name up to 20 preset positions for a video camera. Users can then position the video camera quickly and accurately by merely recalling a preset position.


- 1 Click the “Preset Positions” icon on the “Specific parameter for Sony G20/G21 and Sony D30/D31” page.

The “Preset Positions” page appears in a new window.

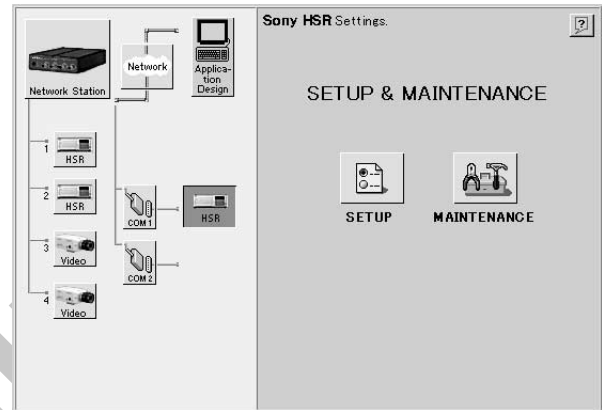



- 2 Observe the sample video camera image while adjusting the camera position using the [Pan], [Tilt] and [Zoom] control bars. Refer to “Pan/Tilt/Zoom Control” on page 28 for details.
- 3 Enter a name for the preset position in the [Current position] text box.
- 4 Click the “Save” icon.  
The name of the preset position is added to the [Preset positions] drop-down list.
- 5 To delete an existing preset position, select the name of the position in the [Preset positions] drop-down list, and click the [Remove] button.
- 6 Click the [Close] button when finished with the settings.  
The “Preset Positions” page closes.


## HSR-1/1P/2/2P Setup

The  (HSR) icon is displayed when HSR-1/1P/2/2P is selected for the serial port usage. When an HSR-1/1P/2/2P is connected to the video network station’s COM1 terminal, if the “HSR” icon does not appear next to the “COM1” icon, reset the serial port usage by referring to “Serial Port Settings” on page 18.

Click the “HSR” icon to display the “Sony HSR Settings” page.



Use the  (SETUP) icon to make HSR-1/1P/2/2P settings from the Web page. Clicking the “Setup” icon displays the “SETUP MENU”.

The  (MAINTENANCE) icon is used to display information for servicing an HSR-1/1P/2/2P unit. Clicking the “MAINTENANCE” icon displays the “MAINTENANCE MENU”. Refer to the HSR-1/1P/2/2P Users Guide for details of HSR-1/1P/2/2P settings. Before making any settings, see the following “HSR-1/1P/2/2P Setting Precautions”.

### HSR-1/1P/2/2P Setting Precautions

- **Always click the [SET] button after making a setting.**  
To apply changed settings, the [SET] button must be clicked on each page. Changes to settings will not be saved unless you click the [SET] button.
- **Display response may slow briefly while settings are being saved.**  
Some display slow-down is normal while settings are being stored in the HSR-1/1P/2/2P: this does not indicate a problem with the video network station.

- **Available settings differ according to the type of HSR connected.**

Some settings are different for the HSR-1/1P and HSR-2/2P, which are automatically detected by the video network station.

- **Recording Mode Setting Procedure**

To set the recording mode, open the “RECORDING MODE 1” - “RECORDING MODE 5” pages from the “RECORDING FUNCTION” page, and set the following items:

- [CAMERAS]
- [TAPE LENGTH]
- [IMAGE QUALITY]
- Either [TIME MODE] or “RECORDING CYCLE”

The HSR-1/1P/2/2P automatically calculates the value of either [TIME MODE] or “RECORDING CYCLE” that was not entered when you click the “SET” button. If the entered value is outside of the valid setting range, an error message appears, so you can enter a valid value. To verify the settings, display the “RECORDING MODE 1” through “RECORDING MODE 5” pages again.

- **Relationship between HSR-1/1P/2/2P Passwords and Video Network Station Password**

The password entered for “PASSWORD SETTING” on the “FUNCTION CONTROL” page restricts operation of the HSR-1/1P/2/2P (which is different from the “Security” password set for the video network station – see page 16). However, the system manager (root user) of the video network station can change the passwords for any connected HSR-1/1P/2/2P. The system manager’s password should therefore be handled carefully.

- **Setting and Canceling HSR-1/1P/2/2P Passwords**

The password entered for “PASSWORD SETTING” on the “FUNCTION CONTROL” page may consist of up to four characters. Asterisks (\*) are displayed when the HSR-1/1P/2/2P password has been set. To cancel a password, delete the displayed asterisks (\*) and click the Set button with both [USER PASSWORD] and [CONFIRM PASSWORD] boxes empty.

- **Time Display Format**

The following four display formats are available on the HSR-1/1P/2/2P “INDICATION CONTROL” page, which are independent of the video network server’s “Date & Time” (see page 15).

- “SETUP MENU” - “TIME ADJUSTMENT”
- “SETUP MENU” - “RECORDING FUNCTION” - [TIMER RECORDING]
- HSR View - “HSR CONTROL” - [TIME SEARCH]
- HSR View - “HSR CONTROL” - [ALARM SEARCH] - [ALARM LIST]

To change these display formats, change the [DATE FORMAT] and [TIME FORMAT] on the “INDICATION CONTROL” page.

- **Setting the HSR-1/1P/2/2P Communications Speed to Match the Video Network Station**


When changing the [RS-232C] communications speed on the “REMOTE CONTROL” page, be sure to also set the video network station communications speed on the “Serial Port 1 Settings” page (see page 18) to the same value. If these settings are not the same, the video network station will be unable to control the HSR-1/1P/2/2P.

- **The “SERVICE USE” Page is for Maintenance Service**

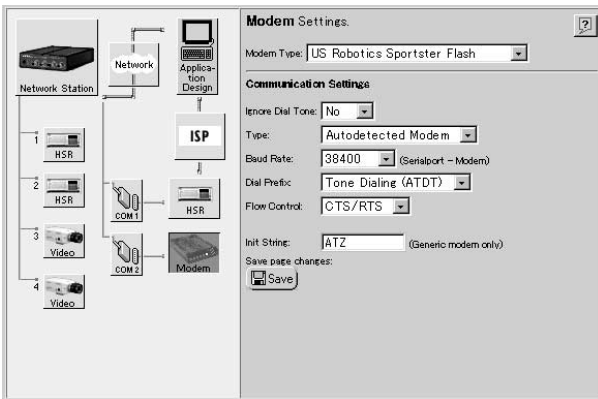
The “SERVICE USE” page in the “MAINTENANCE MENU” is for maintenance service. It is password protected to prevent display to users.

# Installation

## Modem Setup

The  (Modem) icon is displayed when [Modem] is selected for the serial port usage. When a modem is connected to the video network station, if the “Modem” icon does not appear next the “COM2” icon, refer to “Serial Port Settings” on page 18 to reset the serial port usage.

- 1 Click the “Modem” icon.  
The “Modem Settings” page appears.




- 2 Set the necessary items. Settable items are shown in the table below.

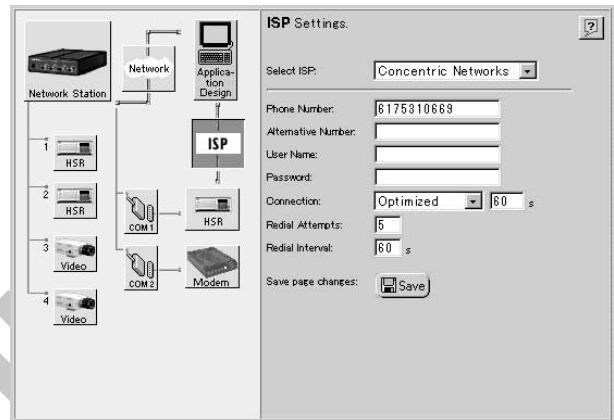
Setting	Description
Modem Type	Select the connected modem. If a matching modem type cannot be found, select [Generic].
Ignore Dial Tone	Select [NO] to start connecting after detecting a dial tone, or select [YES] to start connecting without a dial tone.
Type	Select [Null] if the modem is connected with a null-modem (crossed) cable, or [Autodetected Modem] otherwise.
Baud Rate	Select the communication speed between the serial port and modem.
Dial Prefix	Select either [Tone Dialing (ATDT)] or [Pulse Dialing (ATDP)] according to the type of telephone circuit used for the modem connection.
Flow Control	Select [CTS/RTS] if flow control is available, or [OFF] to disable flow control.
Init String	If [Modem Type] is set to [Generic Modem], enter the required modem initialization string.

- 3 Click the “Save” icon to save your settings when finished.

## ISP (Internet Service Provider) Setup

The  (ISP) icon is displayed when [Modem] is selected for the serial port usage. The “ISP” icon is used to set up connection with an “ISP” (Internet Service Provider). If the “ISP” icon is not displayed, reset the serial port usage according to “Serial Port Settings” on page 18.

- 1 Click the “ISP” icon.  
The “ISP Settings” page appears.





- 2 Set the necessary items. Settable items are shown in the table below.

Setting	Description
Select ISP	Select the destination ISP. If a matching ISP cannot be found, select [Generic].
Phone Number	Enter the telephone number of the connection destination.
Alternative Number	Enter the alternate telephone number to be used if connection cannot be established with the above number.
User Name	Enter the user name for ISP host login.
Password	Enter the password.
Connection	Select [Always Open] to allow unlimited connection to the ISP. Select [Close after] to limit the connection time, and enter the time limit (in seconds). To have the ISP connection cut automatically after transferring images, select [Optimized].
Redial Attempts	Enter the number of times to attempt redialing when a connect attempt fails.
Redial Interval	Enter the interval (in seconds) between redial attempts.

- 3 Click the “Save” icon to save your settings when finished.

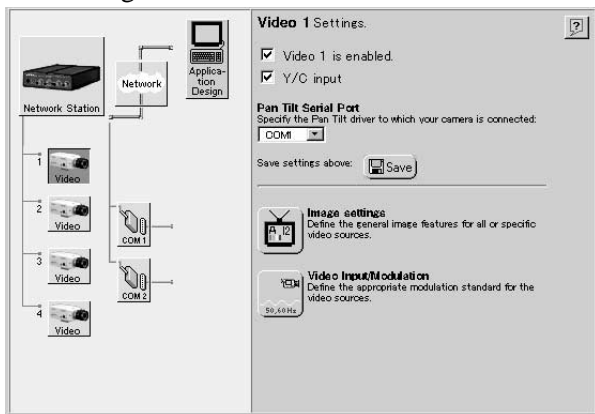
## Video Input Setup

The  (Video) icons indicate the video sources connected to the VIDEO 1 to VIDEO 4 input terminals. If the serial port usage is set for an HSR-1/1P/2/2P, the  (HSR) icon is displayed at the [1] and [2] video input terminals.

An “X” appears to the left of an icon if no video signal is present at the corresponding input terminal.


This example describes the video input setup procedure for an EVI-D30/D31/G20/G21 connected to the S VIDEO input terminal. Set up the other input terminals similarly.

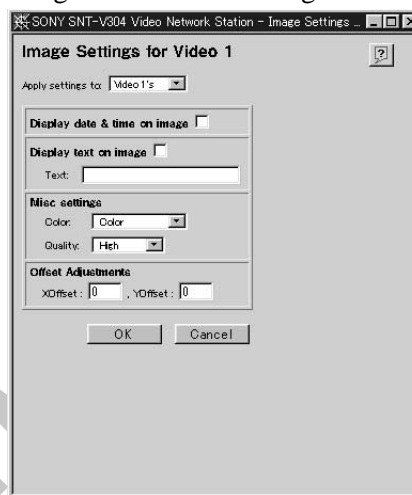
Clicking the “Video” icon of video input [1] displays the following screen.



- 3 Click the “Save” icon.  
The settings are saved.

## Video Image Settings

Click the  (Image settings) icon to display the “Image Settings for Video 1” dialog box.



If only the current video source is to be set, select [Video 1's] in the [Apply settings to] drop-down list. Otherwise, if all video sources are to be set together, select [All Videos']. Click [OK] to save the settings.

## Enabling and Disabling Video Inputs

- 1 Confirm the [Video 1 is enabled.] box is checked.

### Hint

- For optimum performance, we recommend clearing the checkboxes for any input terminals that are not being used.
- When unchecked, the input terminal is displayed as [Disabled].

- 2 Check the [Y/C input is disabled.] checkbox.

### Hint


- When the EVI-D30/D31/G20/G21 is connected to the VIDEO 1 input terminal, this setting is off (unchecked).
- This setting is not available for video inputs [2] to [4].

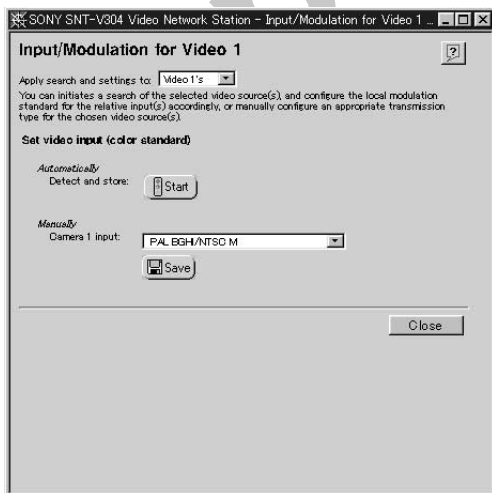
# Installation

Items that can be set are as follows:

Setting	Description
Display date & time on image	Check this box to display the date and time with the video image.
Display text on image	Check this box to display text such as the camera title with the video image.
	Text Enter the text to display to be displayed (up to 16 characters).
Misc settings	Color Select whether the video image is to be displayed as color or monochrome.
	Quality Select one of the five video image compression ratios. The highest image quality is [Hyper], but this requires the largest image file size and network bandwidth.
Offset Adjustments	Enter the horizontal display position of an image as the [X Offset], and the vertical position as the [Y Offset]. Settable range is -4 to +4 (pixels) for [X Offset], and -2 to +2 (pixels) for [Y Offset]. The [Y Offset] setting is valid only when the image display is [Fullsize]. Verify the monitor screen after changing settings, and correct the setting values if the image does not display correctly.

## Setting the Video Input Modulation Method

Click the  (Video Input/Modulation) icon to display the “Input/Modulation for Video 1” dialog box.



If only the current video source is to be set, select [Video 1's] in the [Apply detection and settings to] drop-down list. Otherwise, if all video sources are to be set together, select [All Videos']. Then select the modulation method for the video input: either by manual setting or automatic detection.

### Automatic Setting

Clicking the [Start] button initiates testing of the video source to detect the modulation type to be assigned to the selected source.

### Manual Setting


Select a modulation type from the [Camera 1 input] drop-down list, and click the “Save” icon to save the selection.

### Hint

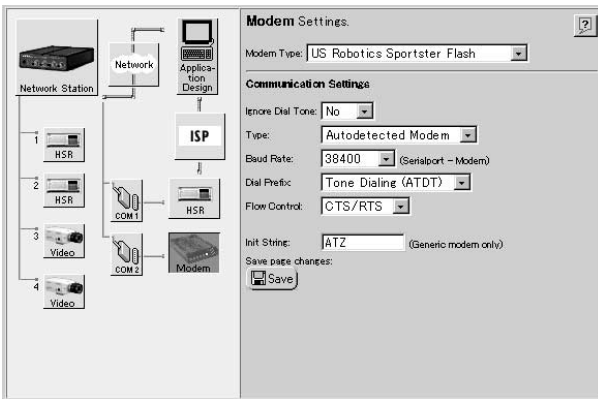
Several different video modulation standards are currently used in different regions. The NTSC video format, generally used in Japan and North America, consists of images composed of 525 lines of resolution displayed at 60 fields per second. The PAL (Phase Alternating Line) video format, which is the common European television standard, consists of images composed of 625 lines displayed at 50 fields per second. The video network station supports NTSC, PAL and several other standards derived from them.

# Installation

## Modem Setup

The  (Modem) icon is displayed when [Modem] is selected for the serial port usage. When a modem is connected to the video network station, if the “Modem” icon does not appear next the “COM2” icon, refer to “Serial Port Settings” on page 18 to reset the serial port usage.

- 1 Click the “Modem” icon.  
The “Modem Settings” page appears.




- 2 Set the necessary items. Settable items are shown in the table below.

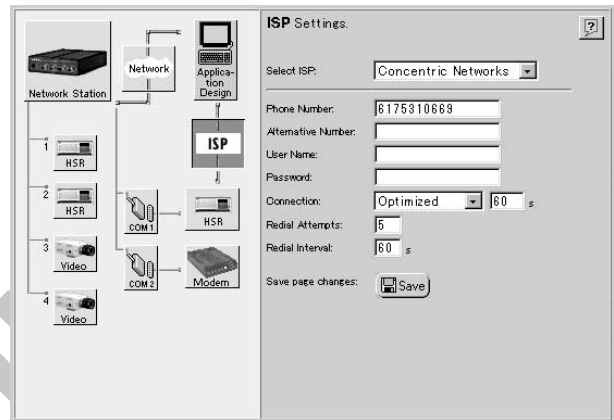
Setting	Description
Modem Type	Select the connected modem. If a matching modem type cannot be found, select [Generic].
Ignore Dial Tone	Select [NO] to start connecting after detecting a dial tone, or select [YES] to start connecting without a dial tone.
Type	Select [Null] if the modem is connected with a null-modem (crossed) cable, or [Autodetected Modem] otherwise.
Baud Rate	Select the communication speed between the serial port and modem.
Dial Prefix	Select either [Tone Dialing (ATDT)] or [Pulse Dialing (ATDP)] according to the type of telephone circuit used for the modem connection.
Flow Control	Select [CTS/RTS] if flow control is available, or [OFF] to disable flow control.
Init String	If [Modem Type] is set to [Generic Modem], enter the required modem initialization string.

- 3 Click the “Save” icon to save your settings when finished.

## ISP (Internet Service Provider) Setup

The  (ISP) icon is displayed when [Modem] is selected for the serial port usage. The “ISP” icon is used to set up connection with an “ISP” (Internet Service Provider). If the “ISP” icon is not displayed, reset the serial port usage according to “Serial Port Settings” on page 18.

- 1 Click the “ISP” icon.  
The “ISP Settings” page appears.





- 2 Set the necessary items. Settable items are shown in the table below.

Setting	Description
Select ISP	Select the destination ISP. If a matching ISP cannot be found, select [Generic].
Phone Number	Enter the telephone number of the connection destination.
Alternative Number	Enter the alternate telephone number to be used if connection cannot be established with the above number.
User Name	Enter the user name for ISP host login.
Password	Enter the password.
Connection	Select [Always Open] to allow unlimited connection to the ISP. Select [Close after] to limit the connection time, and enter the time limit (in seconds). To have the ISP connection cut automatically after transferring images, select [Optimized].
Redial Attempts	Enter the number of times to attempt redialing when a connect attempt fails.
Redial Interval	Enter the interval (in seconds) between redial attempts.

- 3 Click the “Save” icon to save your settings when finished.

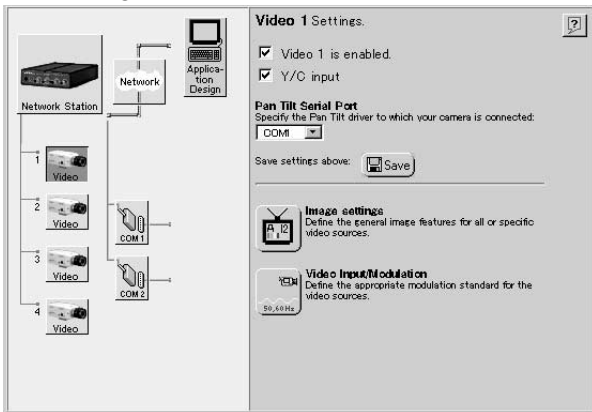
## Video Input Setup

The  (Video) icons indicate the video sources connected to the VIDEO 1 to VIDEO 4 input terminals. If the serial port usage is set for an HSR-1/1P/2/2P, the  (HSR) icon is displayed at the [1] and [2] video input terminals.

An “X” appears to the left of an icon if no video signal is present at the corresponding input terminal.


This example describes the video input setup procedure for an EVI-D30/D31/G20/G21 connected to the S VIDEO input terminal. Set up the other input terminals similarly.

Clicking the “Video” icon of video input [1] displays the following screen.



- 3 Click the “Save” icon.  
The settings are saved.

## Video Image Settings

Click the  (Image settings) icon to display the “Image Settings for Video 1” dialog box.



If only the current video source is to be set, select [Video 1's] in the [Apply settings to] drop-down list. Otherwise, if all video sources are to be set together, select [All Videos']. Click [OK] to save the settings.

## Enabling and Disabling Video Inputs

- 1 Confirm the [Video 1 is enabled.] box is checked.



- For optimum performance, we recommend clearing the checkboxes for any input terminals that are not being used.
- When unchecked, the input terminal is displayed as [Disabled].

- 2 Check the [Y/C input is disabled.] checkbox.




- When the EVI-D30/D31/G20/G21 is connected to the VIDEO 1 input terminal, this setting is off (unchecked).
- This setting is not available for video inputs [2] to [4].

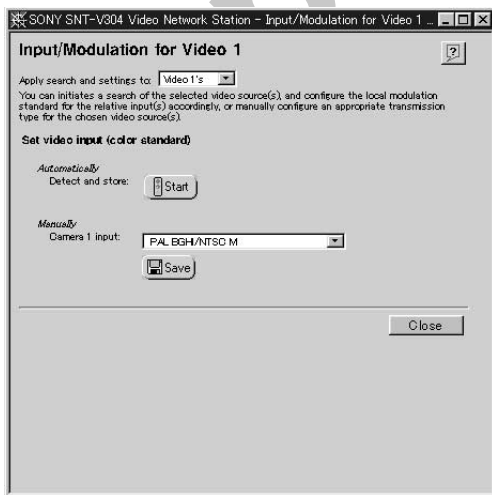
# Installation

Items that can be set are as follows:

Setting	Description
Display date & time on image	Check this box to display the date and time with the video image.
Display text on image	Check this box to display text such as the camera title with the video image.
	Text Enter the text to display to be displayed (up to 16 characters).
Misc settings	Color Select whether the video image is to be displayed as color or monochrome.
	Quality Select one of the five video image compression ratios. The highest image quality is [Hyper], but this requires the largest image file size and network bandwidth.
Offset Adjustments	Enter the horizontal display position of an image as the [X Offset], and the vertical position as the [Y Offset]. Settable range is -4 to +4 (pixels) for [X Offset], and -2 to +2 (pixels) for [Y Offset]. The [Y Offset] setting is valid only when the image display is [Fullsize]. Verify the monitor screen after changing settings, and correct the setting values if the image does not display correctly.

## Setting the Video Input Modulation Method

Click the  (Video Input/Modulation) icon to display the “Input/Modulation for Video 1” dialog box.



If only the current video source is to be set, select [Video 1's] in the [Apply detection and settings to] drop-down list. Otherwise, if all video sources are to be set together, select [All Videos']. Then select the modulation method for the video input: either by manual setting or automatic detection.

### Automatic Setting

Clicking the [Start] button initiates testing of the video source to detect the modulation type to be assigned to the selected source.

### Manual Setting

Select a modulation type from the [Camera 1 input] drop-down list, and click the “Save” icon to save the selection.



Several different video modulation standards are currently used in different regions. The NTSC video format, generally used in Japan and North America, consists of images composed of 525 lines of resolution displayed at 60 fields per second. The PAL (Phase Alternating Line) video format, which is the common European television standard, consists of images composed of 625 lines displayed at 50 fields per second. The video network station supports NTSC, PAL and several other standards derived from them.



# Operation

This chapter describes how to monitor the images distributed from the server.

## Hint

- The functions of the video network station and the views and operation of the monitor screen are set by the system administrator according to the requirements of the surveillance system. So the functions and screens shown in this chapter may differ from those of the actual system you use.
- If you discover a problem with the monitor screen views or operation, please report it to your system administrator.

## About the Operating Environment

The following operating environment is required to view video network station images.

- Computer: 350-MHz Pentium III with 64-MB RAM or more
- Operating System: Windows 95/98, Windows NT 4.0 SP5 or later, or Windows 2000
- Web Browser: Internet Explorer 5 or later.

## Accessing the Monitor Screen

The monitor screen is accessed by a standard Web browser.

- 1 Launch the Web browser.
- 2 Enter the following in the [Address] box of the Web browser, and press the Return key.

```
http://<host name or IP address of the  
video network station>/
```

The “Enter User Name and Password” dialog box appears. Depending on the system settings, a monitor screen may also appear now.

- 3 Enter your user name and password, and click [OK]. If you don't know your user name and password, ask your system administrator. The monitor screen appears.



The monitor screen shows either the Camera view or HSR view (the above example is the Camera view). A system setting determines which is displayed initially.

## Note

- Up to eight users can be logged on at the same time.
- When viewing the monitor screen, large amounts of data are sent to the machine. When using a modem to access the machine, you must perform the following settings:
  - Set video input [Quality] to [High] or less.
  - Set the image size to [Fullsize].
  - Set the image display to one image only.
  - Only control the EVI-D30/D31/G20/G21 or HSR-1/1P/2/2P from the PC.
- If the computer used for viewing the monitor screen is shared with other users, we recommend closing the Web browser when finished operations. Until the browser has been closed, even after moving to another Web page, the password-protected video network station's Web page remains accessible, for example, by clicking the [Back] button.

## Camera View Operations

The Camera View displays the video camera images. Use the screen buttons and icons to switch between cameras and display modes.



### 1 [ALL] Button

Clicking this button switches the monitor screen to the ALL mode (as shown in the above example). In this mode, images from the video cameras connected to the video network station are displayed in two or four partitions.

### 2 [CAM1] to [CAM4] Buttons

Clicking one of these buttons changes the monitor screen to the Single mode, in which only one video camera image is displayed. Each button corresponds to one of the video input terminals ("VIDEO 1" to "VIDEO 4") on the video network station. Buttons corresponding to disabled video input terminals are not displayed.

### 3 [SEQ] Button

Clicking this button changes the monitor screen to the Sequential mode, in which the image from each video camera is displayed one at a time, switching from one camera to the next at preset intervals.

### 4 [ALARM] Button

Clicking this button changes the monitor screen to the Alarm mode, which allows searching images or replaying video when an alarm has occurred. Images saved using the Snapshot icon can be viewed in the Alarm mode. Refer to "Viewing Alarm Event Images" on page 29 for details.

### 5 [ALARM MEMORY] Indicator

Images saved when an alarm event occurs or when the Snapshot icon is clicked are stored in memory in the video network station. The amount of available memory is indicated in seven steps from "E" (empty) to "F" (full).

### 6 Users Logged On

Shows the number of users logged on to the video network station.

### 7 [HOME] Button

Returns the video camera to the home position.

---

**8 [PRESET] Drop-Down List**

Select a preset camera position by name from this list to set the camera to that fixed position (previously set by the system administrator).

**9 [HSR] Button**

Clicking this button changes to the HSR view, in which images of video cameras connected to an HSR-1/1P/2/2P can be monitored, and the HSR-1/1P/2/2P can be controlled. Refer to the “HSR View Mode” on page 33 for details.

**10 [Admin] Button**

Clicking this button displays the “Administration overview” page, where video network station settings and management can be performed. Access to this page is normally restricted to the system administrator.

**11 Site Name**

This is the name assigned to the overall video network station system.

**12 Camera Title**

This is the title of the video camera.

**13 Date and Time**

This is current date and time.

**14 Video Camera Images**

Clicking at a point in an image causes the video camera to pan and tilt so that the clicked point becomes the center of the image.

**15 Snapshot Icon**

Clicking this icon saves the displayed image in the video network station as a [Fullsize] (352 × 240 NTSC) JPEG format file. When two or more images are displayed, the Snapshot icons are displayed at the outer corner of the corresponding image.

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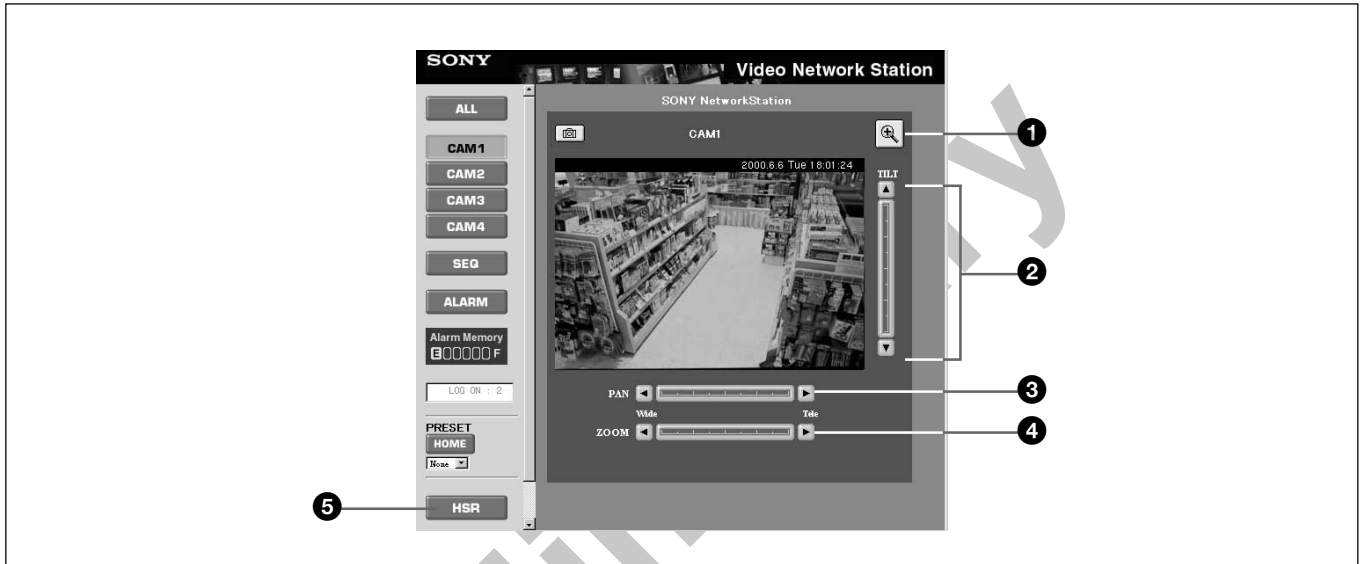
## Pan/Tilt/Zoom Control

When an EVI-D30/D31/G20/G21 is connected to a serial port on the video network station, camera pan, tilt and zoom can be controlled from the Web page. The monitor screen must be set to the Single mode Camera View: click one of the [CAM1] to [CAM4] buttons, if necessary, to change to the Single mode



Camera View. The Pan/Tilt/Zoom control bars are displayed around the video source image in the Single mode.

### Hint

The Pan/Tilt/Zoom functions described here are not available if disabled by the system administrator.



### ❶ Image Size Selection Icons

Clicking this  /  icon switches the image size between [Fullsize] and [Hugesize].

### ❷ Tilt Control Bar

Controls tilt (up/down movement) of the video camera.

### ❸ Pan Control Bar

Controls pan (left/right movement) of the video camera.

### ❹ Zoom Control Bar

Controls zooming of the video camera.

### ❺ [HOME] Button

Returns the video camera to the home position.

## Pan/Tilt/Zoom Control Operation

Video camera pan, tilt and zoom can be controlled by the following methods.

### Step

Clicking a triangle at the top, bottom, left or right of the Pan or Tilt control bar causes the video camera to move by a single step, equal to about five degrees of angle.

### Positioning

Clicking a position on the Pan/Tilt/Zoom control bar causes the video camera to be repositioned in a corresponding manner. In the case of zooming, the video camera zooms as directed.

### Target

Clicking at a point in an image causes the video camera to pan and tilt (so the clicked point becomes the center of the image).

## Viewing Alarm Event Images

The Alarm mode of the Camera View is used to view images saved during an alarm event. The Alarm mode provides an Alarm List screen (List display), Alarm Replay screen (moving image display) and an Alarm Thumbnail screen (thumbnail display).

### Hint

Images saved using the “Snapshot” icon can also be viewed from the Alarm mode, in the same way as alarm event images.

### Alarm Event Actions

The following actions are performed when an alarm event occurs.

- The alarm trigger, alarm time and images before and after the alarm event are stored in memory. Stored images are stored at [Fullsize] (352 × 240 for NTSC).
- The following pop-up window appears on the monitor screen.



- The image displayed on the screen changes to the camera that signaled the alarm event.
- A saved image is transferred to another computer by ftp.
- A saved image is sent as an e-mail attachment to a pre-specified address.

An alarm is canceled when one of the following occurs.

- After a preset interval.
- When the [CLOSE] button is clicked in the pop-up window.

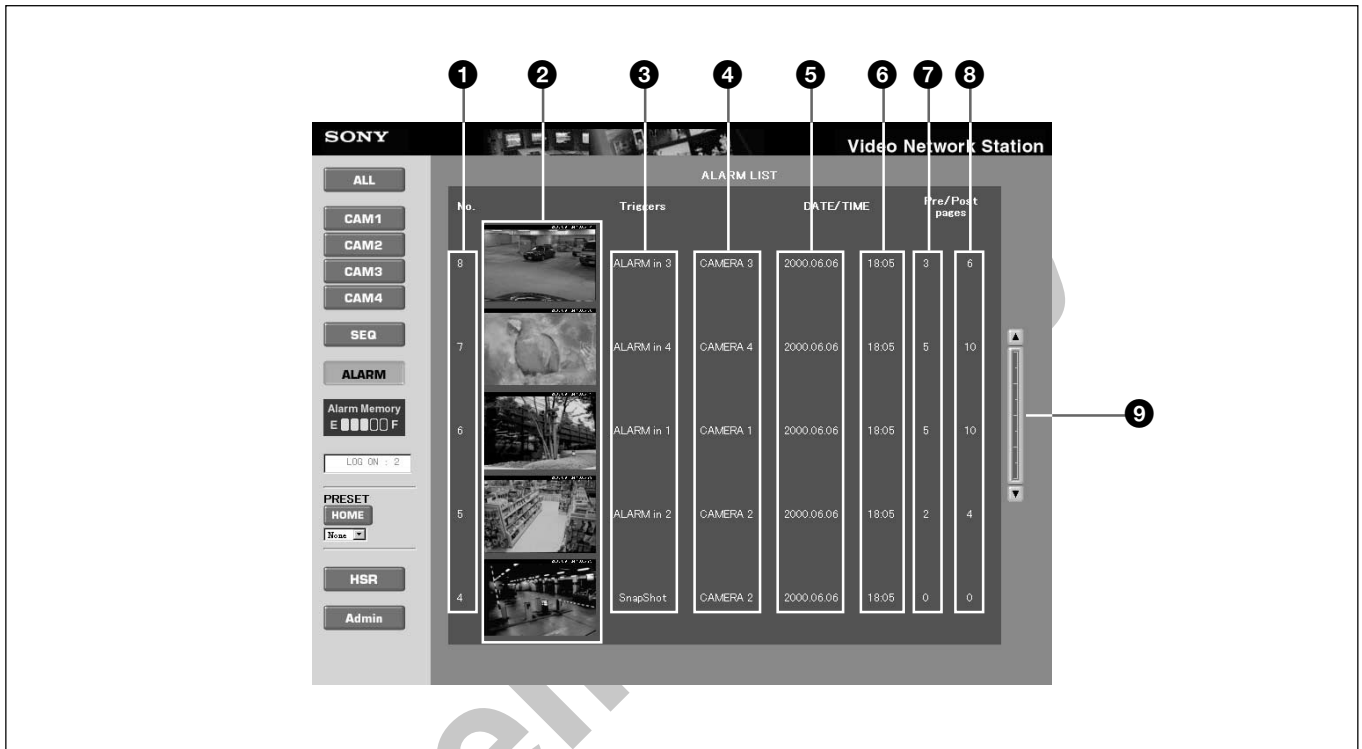
### Hints

The quality of images saved during an alarm event depends on system settings (video input). Also, the actions that occur in response to an alarm event depend on system settings (“Layout and Application Wizard”).

- The pop-up window can be set to display or not.
- Switching to the alarm camera image can be disabled.
- The number of images to be saved can be specified.
- The save interval of images can be specified.
- Transfer of saved images to another computer can be disabled.
- E-mailing saved images as attachments can be disabled.
- The alarm event cancel time can be specified.

## Viewing the Alarm List Screen

The alarm contents saved in memory can be displayed as a list. Clicking the [ALARM] button in the Camera View displays the Alarm List screen.



### ❶ Alarm Number

A serial number (1 to 999) is assigned to each alarm trigger.

### ❷ Alarm Image

One image is displayed for each trigger event. Clicking an image switches to the Alarm Replay screen (page 31), where that image is displayed as a moving image.

### ❸ Alarm Event Trigger

Shows the alarm event trigger source.

### ❹ Camera Number

Shows the camera number.

### ❺ Alarm Event Date

Shows the alarm event date.

### ❻ Alarm Event Time

Shows the alarm event time.

### ❼ Number of Images (before alarm)

Shows the number of images saved before the alarm event.

### ❽ Number of Images (after alarm)

Shows the number of images saved after the alarm event.

### ❾ Scroll Bar

Allows scrolling the list when it is longer than one page.

## Viewing the Alarm Replay Screen

Alarm events saved in memory can be replayed as a moving image.

Clicking on the desired image on the Alarm List screen switches to the Alarm Replay screen with the selected image displayed as a moving image.





### ❶ Alarm Information

Shows the alarm event trigger, camera number and alarm event date and time.

### ❷ Alarm Image (moving image)






Plays back continuous images from before and after the saved alarm event as a moving image.

### ❸ Image Resize Icon

Clicking this  /  icon switches the image size between [Fullsize] and [Hugesize].

### ❹ Movie Control Bar

Click the following icons to control play.

-  Play
-  Pause
-  Stop
- Position bar: click to choose another play position.
-  Step forward one frame
-  Step back one frame

### ❺ “Thumbnail Display” Icon

Click to display the Alarm Thumbnail screen.

### ❻ “Return to Alarm List” Icon

Click to display the Alarm List screen.

# Operation

## Viewing Thumbnails – The Alarm Thumbnail Screen

Alarm events saved in memory can be displayed as thumbnail images. Click the “Thumbnail Display” icon

on the Alarm Replay screen to display images as thumbnails.



### 1 “Paging” Icons

Click to change pages when you have multiple pages of thumbnails.

### 2 Alarm Information

Shows the alarm event trigger, camera title and alarm event date and time.

### 3 Alarm Event Image

The image at the moment an alarm event occurred is framed in red.

### 4 “Return to Alarm List” Icon

Click to display the Alarm List screen.

### 5 Page Number

Shows the page number.

### 6 Alarm Images

Displays the saved alarm images before and after the alarm event as thumbnails. Clicking an image switches to the Alarm Replay screen showing that image.

### 7 [AR] Button

Click to display the Alarm Replay screen.

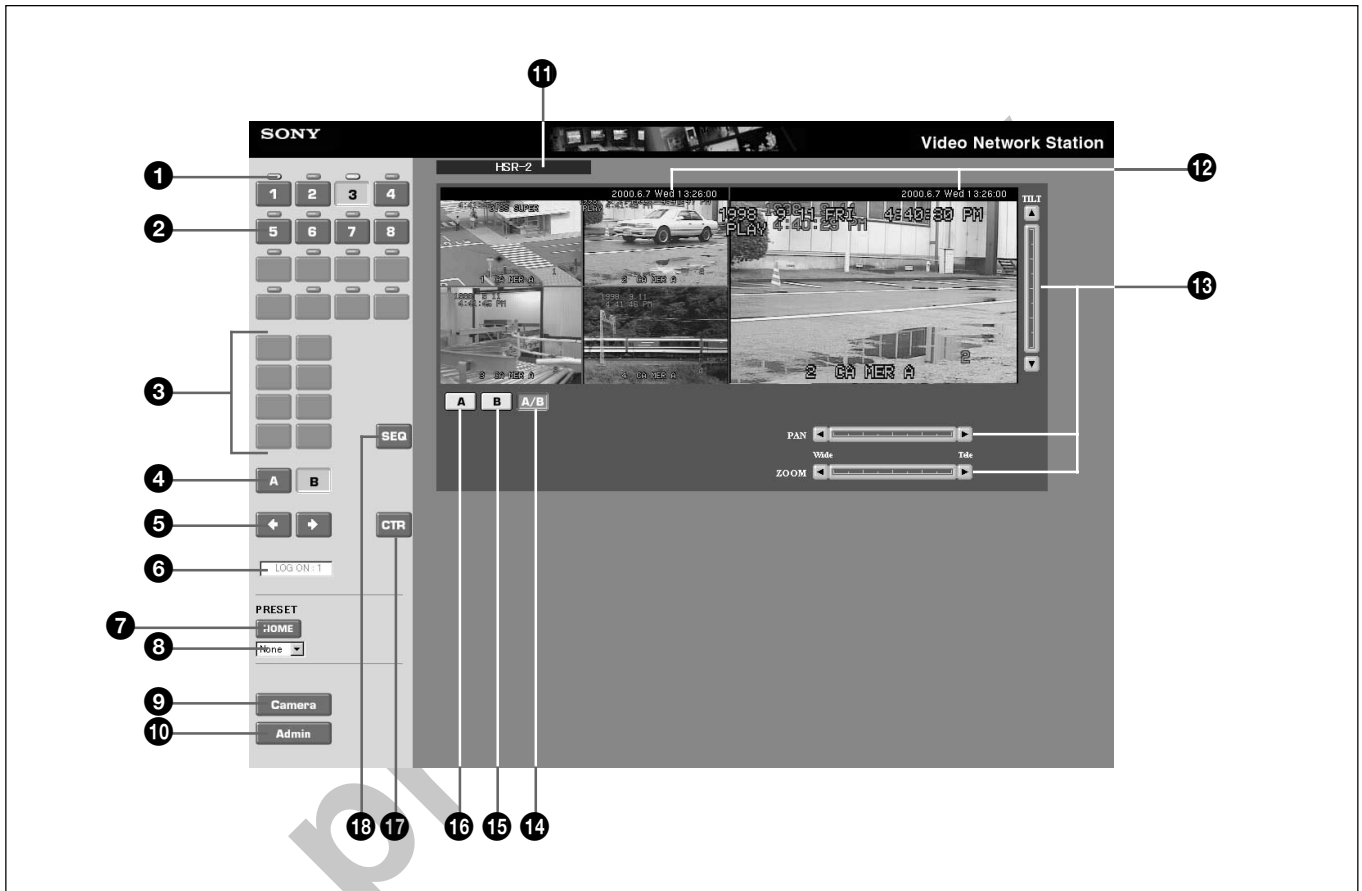


## HSR View Mode

Images from the HSR-1/1P/2/2P are displayed in the HSR View. Screen buttons and icons allow switching cameras, controlling pan/tilt/zoom, changing display modes and controlling the HSR-1/1P/2/2P.

### Note

When multiple users are logged on at the same time, operations of other users may cause the HSR View to change unexpectedly. Check the Users Logged On field to determine if other users are logged on.



### 1 Indicators

A blue indicator appears above a camera number button to indicate that pan/tilt/zoom control is available via a connected EVI-D30/D31/G20/G21. If no video camera ID number has been set in the system settings, or if an EVI-D30/D31/G20/G21 is not connected or is turned off, this indicator is colored gray.

### 2 Camera Number Buttons

Clicking one of these buttons displays the image from that video camera. While monitoring an image, the camera number on the button corresponds to the video input terminal on the HSR-1/1P/2/2P. No camera number appears on a button if the corresponding input terminal has been set to [DISCONNECT] for the camera connection. When playing a tape, the camera number buttons are displayed for those cameras that were on when the tape was recorded. In this case, no camera number appears on a button if that camera was set for [NO RECORDING] at the time the recording was made.

# Operation

## ③ Display Partition Buttons

Clicking one of these icons selects the image monitor layout. The icons are applicable to the A IMAGE output of the HSR-1/1P/2/2P, and are functional when the [A] button ⑩ is selected, or when the [A/B] button ⑭ and the [A] button ④ are selected. The icons appear as follows when enabled for use.



The HSR View can display four to 16 partitions. The system administrator determines which camera is assigned to each display partition.

## ④ [A] and [B] Buttons

These buttons are enabled when [A/B] button ⑭ is selected. Clicking the [A] button causes the screen control buttons to affect the [A] image, and clicking the [B] button causes the screen control buttons to affect the [B] image.

## ⑤ Paging Buttons

If the screen partitions span multiple pages, click these buttons to change pages.

## ⑥ Users Logged On

Shows the number of users logged on to the video network station.

## ⑦ [HOME] Button

Clicking this button returns the video camera to its preset (home) position. Its action applies to the image at which the pan/tilt control bar is displayed.

## ⑧ [PRESET] Drop-Down List

Select a preset camera position by name from this list to set the camera to that fixed position (previously set by the system administrator). Selecting from this list while the display is partitioned causes the screen to switch to a single image showing the selected video camera.

## ⑨ [Camera] Button

Clicking this button changes to the Camera View.

## ⑩ [Admin] Button

Clicking this button displays the “Admin overview” page, where video network station settings and management can be performed. Access to this page is normally restricted to the administrator.

## ⑪ Connection Status

Shows the type of HSR unit (HSR-1/1P or HSR-2/2P) connected to the video network station. If the connected HSR-1/1P/2/2P is not turned on or communicating properly, [DISCONNECT] is displayed.

## ⑫ Date and Time

This is current date and time. The system administrator determines whether the date and time are displayed.

## ⑬ Pan/Tilt/Zoom Control Bars

Use to control video camera pan, tilt and zoom. The bars are displayed and enabled in the following cases:

- When a video camera capable of pan/tilt/zoom operation is selected by the numbered buttons.
- When a video camera capable of pan/tilt/zoom operation is selected by the [B] button ⑮.
- While output of the A IMAGE and B IMAGE is displayed by the [A/B] button ⑭ and a video camera capable of pan/tilt/zoom operation is selected by the [A] or [B] button ④.

Refer to “Pan/Tilt/Zoom Control” on page 28 for details of control bar operations.

## ⑭ [A/B] Button

Clicking this button displays A IMAGE and B IMAGE from the HSR-1/1P/2/2P, on a split screen.

## ⑮ [B] Button

Clicking this button displays the B IMAGE from the HSR-1/1P/2/2P.

## ⑯ [A] Button

Clicking this button displays the A IMAGE from the HSR-1/1P/2/2P.

## ⑰ [CTR] Button

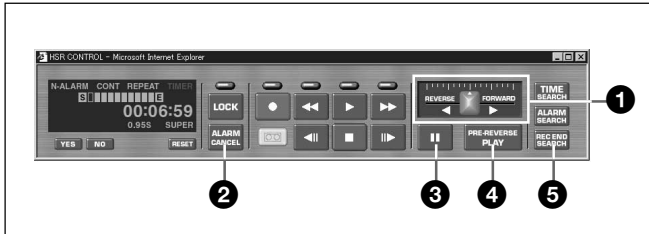
Clicking this button displays the “HSR CONTROL” page in a new window, for controlling the HSR-1/1P/2/2P. Refer to “HSR-1/1P/2/2P Control” below for details.

## ⑱ [SEQ] Button

Clicking this button controls the automatic image switching function of the HSR-1/1P/2/2P, in which the image from each camera is displayed sequentially, switching from one camera to the next at preset intervals. Click the button again to cancel.

## HSR-1/1P/2/2P Control

The HSR-1/1P/2/2P is controlled from the [HSR CONTROL] page, displayed by clicking the [CTR] button in the HSR View. Functions specific to the HSR-1/1P and HSR-2/2P are described below. Please refer to the HSR-1/1P/2/2P Users Guide for details of other functions.



### 1 [REVERSE] / [FORWARD] Slider

Dragging the slider when playing a video tape varies the playing speed. Both [FORWARD] and [REVERSE] playing speed can be adjusted from 1/30th to 16 times normal. Play is stopped at the center position.

The slider stops at the point where it is released after dragging. To resume playing at the new speed after interrupting play with the [II] (Pause) or [▶] (Play) button, drag the slider again.

### 2 [ALARM CANCEL] Button

Clicking this button cancels the alarm input to the HSR-1/1P/2/2P. It can be used to cancel the alarm before the cancellation interval set for the HSR-1/1P/2/2P has elapsed.

### 3 [II] (Pause) Button

Clicking this button during variable speed play with Slider 1 pauses image play.

### 4 [PRE-REVERSE PLAY] Button

This button is enabled when an HSR-2/2P is connected to the video network station. Clicking this button while recording with the HSR-2/2P rewinds by the specified Pre-Reverse Time value, and then plays. This action (play while recording) is the same as pressing the PLAY key on the HSR-2/2P while recording. However, PRE-REVERSE PLAY cannot be started while recording by clicking the [▶] (Play) button on the "HSR CONTROL" page of the video network station. Clicking the [▶] (Play) button after changing playing speed while recording results in 1× play speed.

### 5 [REC END SEARCH] Button

Clicking this button locates the end of the recorded part of the tape. It duplicates the operation of the Rec End Search item on the HSR-1/1P/2/2P "Time Search" Screen.

## Log File Information

Recently executed commands are recorded in the log file on the video network station. The log file is used to check whether a special event was executed, such as whether a command was issued before or after an alarm occurred. It is also used as a troubleshooting tool to resolve operational problems.

### Log File Display on the Administration Overview Page

- 1 Display the video network station monitor screen in the Web browser, and click the [Admin] button. The “Administration overview” page (for setting and administration) appears.
- 2 Click the [Network Station] icon. The [General Settings] screen appears.
- 3 Click the [View Log File] button. The “Log file Events” page opens showing all commands executed since the system was last restarted.

## Checking the Log File

The log file is saved as a text file that can be opened with a text editor. The following information is typically found in the log file.

```
Fri Apr 30 09:56:35 Info :Initialize video decoders
Fri Apr 30 09:56:41 Detection of color standard.
Fri Apr 30 09:56:41 Saa7111Decoder ::Found PAL
BGHI/NTSC M.
Fri Apr 30 09:56:41 Detection of color standard.
Fri Apr 30 09:56:42 Saa7111Decoder ::Found PAL
BGHI/NTSC M.
Fri Apr 30 09:56:42 Initialize serial ports device
Drivers
Fri Apr 30 09:56:42 serialHAL ::mode :using RS232
Fri Apr 30 09:56:42 serialHAL ::mode :using RS232
Fri Apr 30 09:56:42 Create Nulldriver,port 2
Fri Apr 30 09:56:42 Initialize Juliette chip
Fri Apr 30 09:56:42 Start script
Fri Apr 30 09:56:42 Start SoftWatchdog
Fri Apr 30 09:56:42 Create camera device port
connection
```

---

## Resetting to Factory Defaults


Two procedures are available to return the video network station to its factory default settings: one using the RESET switch on the unit, and the other by remotely accessing the Administration Overview page from the network.

### Note

The following procedure returns all settings, including the IP address of the device, to the factory default settings.

---

### Resetting to Factory Defaults by the RESET Switch

- 1 Disconnect the power cable from the video network station.
- 2 Insert a long, thin implement to hold the RESET switch down.  
 **Hint**  
The RESET switch is located inside the small hole between the VIDEO 3 and VIDEO 4 terminals.
- 3 Reconnect the power cable while holding the RESET switch down.
- 4 When the STATUS indicator lights yellow, release the RESET switch.  
After about five seconds, the video network station reboots.

The video network station settings are returned to their factory default values.

---

### Resetting to Factory Defaults from the Administration Overview Page

- 1 Display a monitor screen in the Web browser, and click the Admin button.  
The “Administration overview” page appears.
- 2 Click the [Network Station] icon.  
The screen display changes to [General Settings].
- 3 Click the [Factory Default] button.  
A confirmation message appears.
- 4 Click [OK].

The video network station settings are returned to their factory default values.

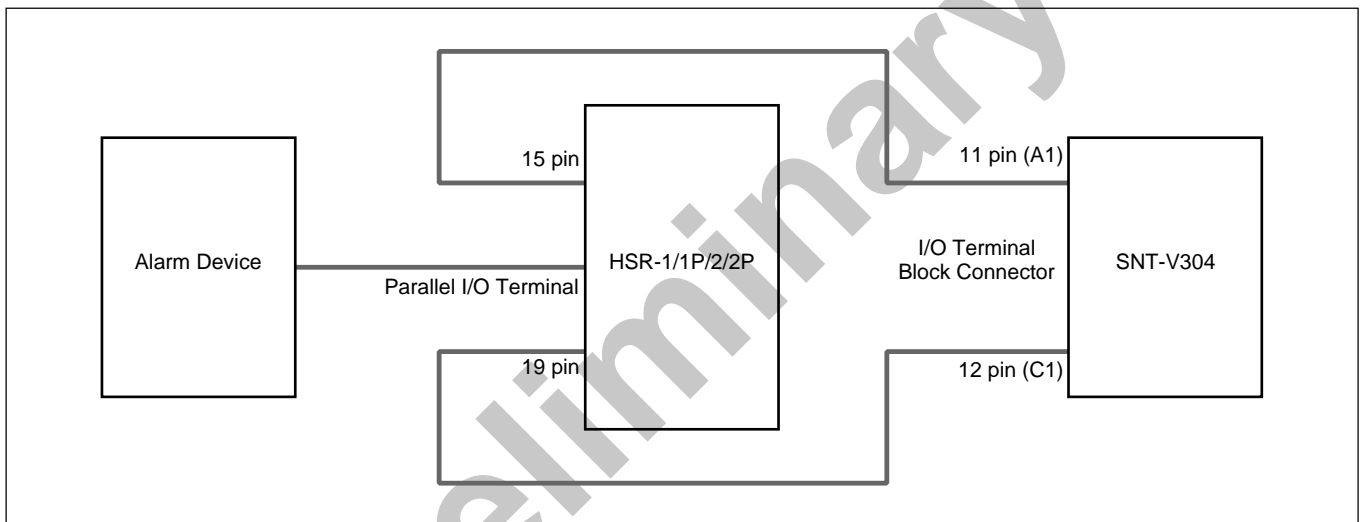
### Simultaneous Alarm Input to the HSR-1/1P/2/2P and Video Network Station Alarm Memory

When alarm recording is initiated by input of an alarm signal to the HSR-1/1P/2/2P, if the alarm signal is sent from the HSR-1/1P/2/2P to the video network station, the alarm function of the video network station acts simultaneously with the HSR-1/1P/2/2P. In this way, alarm events recorded on the HSR-1/1P/2/2P can be

easily confirmed on the video network station monitor without using the alarm search function of the HSR-1/1P/2/2P.

To confirm alarm events precisely using the video network station alarm memory as an index, perform an alarm search using the HSR-1/1P/2/2P.

### Connecting the Alarm Device



Refer to the HSR-1/1P/2/2P Users Guide for details of alarm device wiring and the HSR-1/1P/2/2P Parallel I/O Terminal.

## HSR-1/1P/2/2P Settings

On the “Administration overview” page, select the “HSR” icon first, and then the “Setup” icon to make settings on the Setup Menu page. Items not mentioned below should be set according to the operating environment.

### Alarm Input Settings

Refer to the HSR-1/1P/2/2P Users Guide for details of HSR-1/1P/2/2P alarm input settings.

### Alarm Output Setting

Setting			Value
REMORT CONTROL	PARALLEL OUTPUT	OUT 1 (pin 15)	ALARM
	PARALLEL OUTPUT VOLTAGE	OUT 1 (pin 15)	12 V

### Monitor Display Switching Setting

Setting			Value
IMAGE CONTROL	A IMAGE	ALARM CHANGE	ON

## Video Network Station Settings

On the “Administration overview” page, select [Application] with the “Layout and Application Wizard” (page 13), and set the following items. Items not mentioned below should be set according to the operating environment.

Setting	Value	Description
Alarm pop-up window	Disable	When set to [Enable], two items, an alarm notification window and HSR-1/1P/2/2P identifier, are displayed.
Switch image when Alarm ON	Disable	Because the HSR-1/1P/2/2P switches the image when an alarm occurs, this does not need to be [Enable].
Input 1	Alarm Enabled	When a number is entered for the [Number of Pre-Alarm Images], images displayed immediately prior to an alarm event at the A terminal of the HSR-1/1P/2/2P are saved to the alarm memory of the video network station. Therefore, if an image from another video camera is displayed immediately before an alarm, the required image is not recorded.
	Alarm On at: Positive edge	
	Alarm On at: Negative edge	
	Number of pre-alarm images	

### Hint

- To ensure recording of images before an alarm event, on the “Administration overview” page, select the [HSR] icon first, and then the [Setup] icon and set the “RECORDING MODE” to [PRE-ALARM] on the “RECORDING FUNCTION” page. In this case, image confirmation is performed at the HSR-1/1P/2/2P “ALARM SEARCH”. Refer to the HSR-1/1P/2/2P Users Guide for details of HSR-1/1P/2/2P alarm recording.
- When four video cameras are connected to HSR-1/1P/2/2P video input terminals 1 to 4 and the HSR View is set to display four partitions, if an alarm event occurs at any camera, the number of images set for the [Number of PRE-Alarm Images] is saved. However, in this case, the saved image will consist of the four displayed partitions.

## Basic Administration

### If You Suspect a Problem

If you notice a symptom that leads you to suspect the video network station may be broken, please check the following items before contacting your Sony Service Center.

Symptom	Possible Cause	Remedy
No access from Web browser	The IP address assigned to this unit may have already been assigned to another device.	<p>Use the following procedure to check for unique IP address assignments:</p> <ol style="list-style-type: none"> <li>Enter the following at an MS-DOS prompt (command prompt):           <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <pre>ping &lt;host name or IP address of video network station&gt;</pre> </div> </li> <li>The cause of the problem can be determined from the response received:           <ul style="list-style-type: none"> <li>bytes=32 time=2ms ... The IP address has already been assigned. Please obtain and set another IP address.</li> <li>destination host unreachable The video network station is not on a reachable network node. Please obtain and set another IP address.</li> <li>request timed out The IP address has not been assigned to any users. It can be assigned to the video network station.</li> </ul> </li> </ol>
	When attempting to set the ARP address in Windows 95, the ARP table might have been empty.	The "arp" command cannot be used in Windows 95 when the ARP table is empty. Enter "arp-a" at an MS-DOS prompt (command prompt) to display the ARP table contents. If it is empty, execute a "ping" command to an existing host on the network, and then download an IP address to the video network station with the "arp" command.
The POWER indicator does not light steadily	A problem may be present in the power supply.	Confirm that the supplied AC adapter is connected.

Symptom	Possible Cause	Remedy
The NETWORK indicator lights red	A problem may be present in the network connection cable.	<p>Confirm that the network cable is connected correctly by the following procedure:</p> <ol style="list-style-type: none"> <li>Execute a "ping" command to an existing host on the network.</li> <li>If a response such as "...bytes=32 time=2ms" is received, the cables are connected properly.</li> </ol>
The server operates locally, but not beyond the router	A protective firewall may be installed.	Contact your system administrator.
	A default router is needed.	Check whether a default router setting is required.
	The Web server may be overloaded.	Prepare a script to run on the Web server and replay images sent from the video network station to the Internet.
The image does not refresh even when the "Reload" or "Refresh" button in the Web browser is pressed, or the image refreshes slowly (or both)	Because distributed images are large and complex (with many contrast levels), a large amount of memory is required for the file in the video network station.	If several clients attempt to access the same image at the same time, memory limitations may degrade server throughput. Try reducing the number of clients.
Poor image quality	Display settings may be incorrect.	Change the computer display setting to a minimum of 65,000 colors (16 bits). Poor image quality will result if the display is set to 256 colors or less.

### Lithium Battery Replacement

The lithium battery lasts about two years with normal use.\* When the battery is depleted, the data and time settings are lost. Contact your Sony Service Center to have the battery replaced (for a charge).

\*Presuming the power is normally kept on. If the power is regularly turned off, battery life can be expected to be about one year. Actual battery life depends on the operating conditions.



# Basic Specifications

**Operating Voltage** 12 V AC  
**Power Consumption** 5.5 W  
**Operating Temperature** 5 to 50 °C  
**Weight** Approx. 0.8 kg  
 (excluding AC adapter)  
**External Dimensions** 145 × 41 × 220 mm (WHD)  
**VIDEO IN Terminals (BNC) × 4**  
 VBS, VS signal: 1.0 Vp-p ±0.2 V  
 with 75-Ω/Hi-Z termination.  
 NTSC and PAL formats  
 autodetected  
**S-VIDEO Terminal (4-pin) × 1**  
 Y signal: 1.0 Vp-p ±0.2 V @ 75Ω  
 C signal: 1.0 Vp-p ±0.2 V @ 75Ω  
**Serial Terminals (9-pin D-Sub/RS232C)**  
 COM1: Maximum 230 Kbps  
 COM2: Maximum 38.4 Kbps,  
 half-duplex  
**System Requirements**  
**Computer:** 350-MHz Pentium III with  
 64-MB RAM or more  
**Operating System:** Windows 95/98, Windows NT  
 4.0 SP5 or later, or Windows  
 2000  
**Web Browser:** Internet Explorer 5 or later  
**Administration** Remote settings and  
 administration by Web-based  
 tools  
**Image Compression Format**  
 JPEG (user-selectable  
 compression level)  
**Video Functions** Time stamp overlays

**Network Connection** 10Base-T or 100Base-TX  
**Protocols** TCP, IP, HTTP, FTP, SMTP,  
 NTP, DNS, ICMP, ARP, BOOTP  
**Pre- and Post Alarm Buffer**  
 Up to 4 MB is available to store  
 images before and after alarm  
 events  
**Pan/Tilt/Zoom (PTZ)**  
 Supports remote control of Sony  
 EVI-D30/D31/G20/G21 cameras  
**Security** User-level password protection

## Image Distribution Capabilities

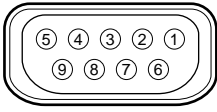
NTSC			PAL		
Resolution	File Size (KB)	Max. fps *	Resolution	File Size (KB)	Max. fps *
704 × 480	10 to 300	3	704 × 576	12 to 360	2
352 × 240	3 to 100	30	352 × 288	4 to 120	25

\*Maximum performs presumes one user viewing one video source. Actual performance depends on operating environment.

**Supplied Items**  
 AC Adapter (1)  
 Operating Manual (1)  
 Warranty Card (1)

# Basic Specifications

## RS-232 Serial Interface Terminal Pin Out



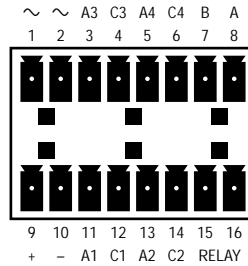
Connector width must not exceed 32 mm.

Pin No.	COM1 function	COM2 function
1	NC	CD
2	-RXD	-RXD
3	-TXD	-TXD
4	RTS	DTR
5	GND	GND
6	DSR	DSR
7	RTS	RTS
8	NC	CTS
9	NC	RI

• NC = no connection

This is a Class A Information Technology Device conforming to the VCCI (Voluntarily Controlled Communication Interference) standards for information processing devices. This device is designed to be suitable for use in a home environment, but it may interfere with reception if used near a radio or television. Please follow the instructions in the users manual for proper use.

## I/O Terminal Block Connector Pin Out

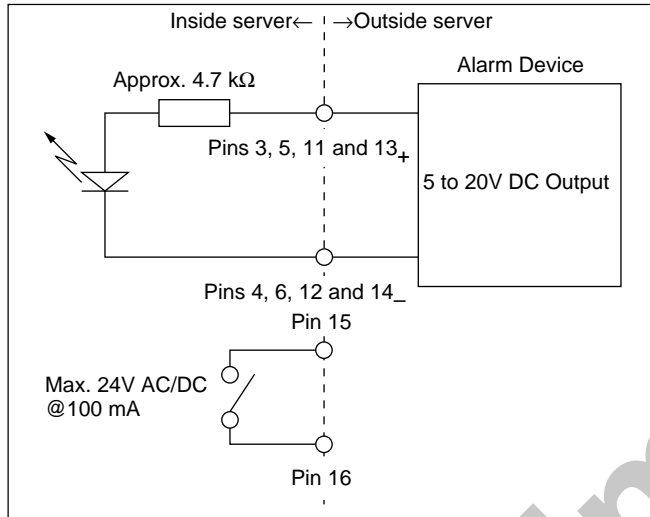


Pin	Function	Description
1	Reserved	Do not use
2	Reserved	
3	Input 3 Photocoupler (+)	Photocoupler input 3: the sash and contacts are electrically isolated, so input can be an external DC voltage or DC power input/output from pins 9 and 10.
4	Input 3 Photocoupler (-)	
5	Input 4 Photocoupler (+)	Photocoupler input 4: the sash and contacts are electrically isolated, so input can be an external DC voltage or DC power input/output from pins 9 and 10.
6	Input 4 Photocoupler (-)	
7	Reserved	Do not use
8	Reserved	
9	Photocoupler power	Power for Photocouplers
10		
11	Input 1 Photocoupler (+)	Input 1 Photocoupler input. Same as Input 3 above.
12	Input 1 Photocoupler (-)	
13	Input 2 Photocoupler (+)	Input 2 Photocoupler input. Same as Input 3 above.
14	Input 2 Photocoupler (-)	
15	Relay Switch	The relay switch is electrically isolated from the sash and connectors.
16	Relay Switch	

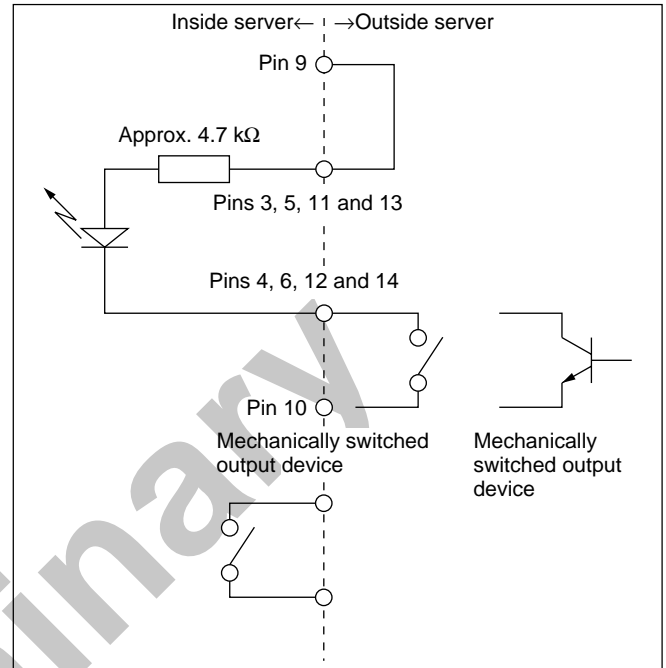
## Alarm Inputs

Four photocoupler inputs are provided for alarm inputs. Alarm signals can be connected to any of the inputs as follows.

To use the electrically isolated inputs, the connected device must have 5 to 20-V DC output, connected as follows.



If an alarm device has mechanically switched or open-collector outputs that do not need to be electrically isolated, connect as follows.



- Refer to the respective manuals for details on setting up the EVI-D30/D31/G20/G21 and HSR-1/1P/2/2P.
- Please note that specifications and external appearance may be changed for purposes of improvement without notification.

# Settings List

Settings that can be changed with each wizard and dialog box are as follows.  
Asterisks (\*) denote items that can be set with the First Time Installation Wizard.

<b>■ Application Design</b>	<b>Page</b>
Layout *	13
Display Format	13
Display Size	13
SONY Logo	13
SEQ	13
Application	13
Alarm	14
<b>■ Network</b>	
BOOTP	15
Internet Address *	15
Default Router *	15
Subnet Mask *	15
Host Name *	15
Bandwidth Control *	15
Domain Name *	15
Primary DNS server *	15
Secondary DNS server *	15
Primary Mail server *	15
Secondary Mail server *	15
Return Email Address *	15
<b>■ Network Station</b>	
Site Name	15
Date & Time *	15
Format	16
Synchronize/Set	16
Security *	16
Password	16
User	16
View Parameter List	17
View Log File	17
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# Warranty Card and After Sales Service

## Warranty Card

- The warranty card should be provided with the server at the time of purchase.
- Please read the terms on the card, fill in any required items, and keep it in a safe place.

## After Sales Service

### **If a problem arises, first check for the cause**

Refer to this operating manual for the possible causes and remedy.

### **If the problem persists, ask for service**

Contact your supplier or nearest Sony Customer Service Center listed in the “Sony Business Product Customer Service Information”.

### **Repairs within the warranty period**

We will provide repairs according to the terms of the warranty card. Refer to the warranty card for details.

### **Repairs outside of the warranty period**

If repair is deemed feasible, we will be pleased to provide repair service according to your instructions and at your expense.

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